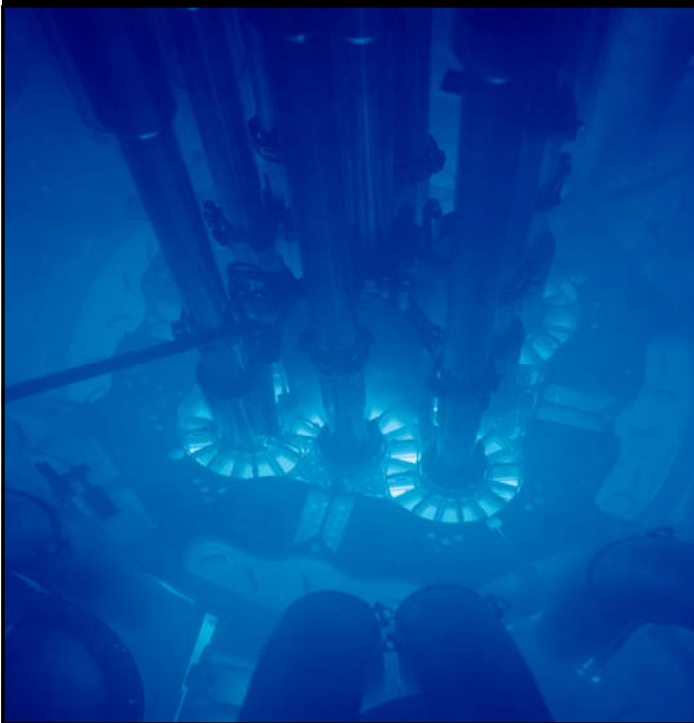


Core Competencies Directory

Idaho Office of Science & Technology

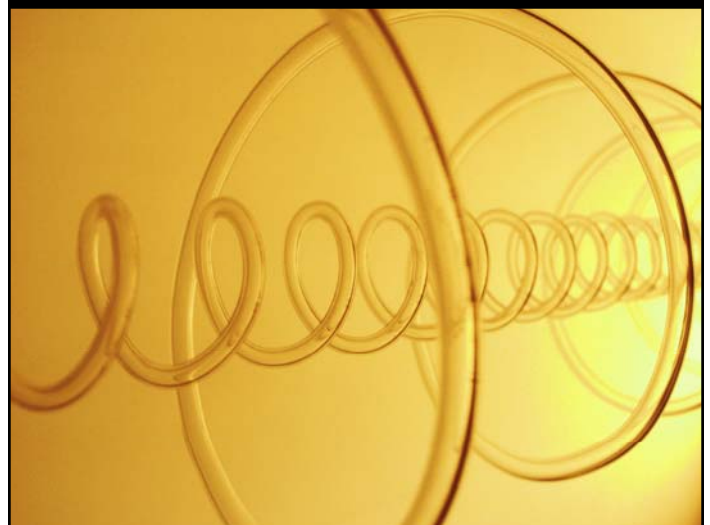
Power and Energy



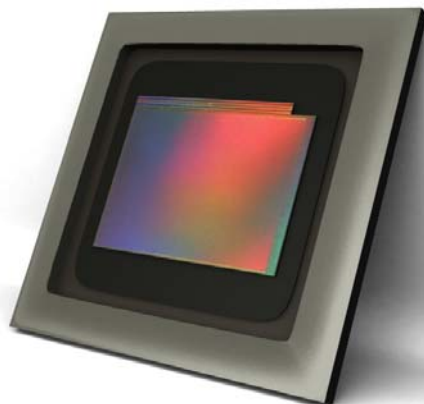
Ag/Biosciences



Nanotechnology/ New Materials



Imaging Technology



IDAHO
COMMERCE & LABOR

James Risch, Governor
Roger B. Madsen, Director

June 2006

Cover photos courtesy of Micron Technology Inc. and the Idaho National Laboratory.

Idaho Commerce & Labor

Office of Science & Technology

Karl Tueller, Executive Director

(208) 334-2650

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Jeff Viano

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Ricky Bower

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Introduction

Technology is one of Idaho's largest industries, representing more than 70 percent of the state's exports and nearly 18 percent of total wages.

Recognizing the importance of this broad industry to the state, the Governor's Science & Technology Advisory Council in 2004 commissioned a report to determine Idaho's core competency areas within the technology industry.

Those areas of expertise have been defined as:

Ag/Biosciences
Imaging
Power and Energy
Nanotechnology/New Materials

This directory provides a listing of companies and organizations in Idaho that have resource strengths and technical knowledge in these core competency areas.

This directory is also available online at www.technology.idaho.gov.

Ag/Biosciences

Ag/Biosciences

Agriculture, one of Idaho's oldest industries, is merging with one of Idaho's newest industries to create a burgeoning new sector - the biosciences.

This growing sector is a blend of agriculture and technology with a dose of healthcare - includes everything from cancer research to new seed crop development and electronics used in implantable medical devices.

A report by the Governor's Science & Technology Advisory Council Subcommittee found that Idaho is strong in the areas of bioproducts and biofuels, environmental remediation and sustainability, and communicable diseases in plants, animals and humans.

In 2004, the Idaho Biosciences Association was formed followed by the Institutional Development Award Program. A network for biomedical excellence was established, and the state subsequently named the biosciences as one of its core competencies, calling for a stronger focus in education, research and economic development in this area.

In 2005, Idaho State University announced the establishment of a biomedical research institute, and the state held its first-ever pavilion at the Worldwide Biotechnology Industry Organization convention.

Inside the Directory

Inside this agriculture-bioscience directory are companies, agencies and institutions that research, commercialize technologies in areas such as agriculture, genetics, micro-biology, ecology, health care and food production.

Companies & Agencies

Acclima Inc.

Acclima is an Idaho corporation with headquarters in Meridian. Acclima researches, develops and markets patented soil moisture sensing technologies and associated irrigation controllers through distribution and licensing in the United States and throughout the world.

2260 E. Commercial St.

Meridian, ID 83642

E-mail: dale_hansen@acclima.com

Web site: acclima.com

Ag Concepts Corp.

Ag Concepts is a fertilizer manufacturing company that specializes in bio-stimulant, humic acid, kelp, seaweed, adjuvant, surfactant, foliar fertilizer, soil penetrant and starter fertilizer products for agriculture.

17285 U.S. Highway 30

Bliss, ID 83314

Phone: (208) 388-1131

E-mail: agc@agconcepts.com

Web site: agconcepts.com

Agilent Technologies

Agilent delivers critical tools and technologies that sense, measure and interpret the physical and biological world. The company's solutions enable a wide range of customers in communications, electronics, life sciences and chemical analysis to make technological advancements that drive productivity. Agilent is an international company headquartered in Palo Alto, Calif.

6074 N. Discovery Way

Boise, ID 83713

Phone: (208) 672-7300

Web site: agilent.com

AgraServ Inc.

AgraServ performs agricultural research and provides crop injury consulting.

2565 Freedom Lane

American Falls, ID 83211

Phone: (208) 226-2602

Web site: agraserv.com

Agrimark

326 South 1400 West

Pingree, ID 83262

Phone: (208) 684-3703

Alchem Laboratories Corp.

Alchem Laboratories is a custom research organization that specializes in the synthesis of novel organic compounds and the manufacturing of pharmaceuticals and fine organic chemicals.

104 West 31st. St.

Boise, ID 83714

Phone: (208) 336-1172

Web site: alchem.com

Allied Seed LLC

Allied Seed offers private label and branded products over a wide range of varieties. The company's seeds are produced, processed and packaged at facilities in Nampa, Idaho, and Albany, Ore., where the company has more than 25,000 acres of forage and turf seed production. Seeds are conditioned, treated, coated and packaged to customer specifications.

9311 Highway 45

Nampa, ID 83686

Phone: (208) 466-6700

E-mail: dlawrence@alliedseed.com

Web site: alliedseed.com

Alturas Analytics

Alturas Analytics uses liquid chromatography and mass spectrometry techniques to generate high-speed, selective methods for the low-level detection of drugs, agrochemicals and other ionizable solutes in complex matrices.

1282 Alturas Drive

Moscow, ID 83843

Phone: (208) 883-3400

Web site: alturasanalytics.com

America's Alfalfa

America's Alfalfa genetically engineers alfalfa seeds. The company has developed the first commercial variety with phytophthora resistance, the first Traffic TeSuted® varieties with high resistance to phoma crown rot and patented salt tolerant varieties. America's Alfalfa is currently working to develop the traffic tolerant variety with nonselective herbicide tolerance as well as an alfalfa variety that is nutritionally dense.

Tom Miles

Caldwell, ID

Phone: (208) 467-2191 ext. 107

E-mail: miles@americasalfalfa.com

Web site: americasalfalfa.com

American Vanguard Corp.

American Vanguard is a diversified specialty and agricultural products company that develops and markets crop protection, turf and ornamental products and public health insecticides.

9601 W. State St. #109

Boise, ID 83714

Phone: (208) 229-1936

E-mail: bstrange@amvac.net

Web site: amvac-chemical.com

AMS Inc.

AMS develops and manufactures hand sampling equipment used for maintenance, monitoring and soil research.

105 Harrison St.

American Falls, ID 83211

Phone: (800) 635-7335

Web site: ams-samplers.com

Analytical Laboratories Inc.

Analytical Laboratories Inc. has a certified laboratory that performs a variety of scientific services and tests on drinking water that include biological, bacteriological, physical and chemical analyses. The company also provides testing, consulting and sampling services for wastewater, soil, food, fertilizer and petroleum products.

1804 N. 33rd. St.

Boise, ID 83703

Phone: (208) 342-5515

Web site: analyticallaboratories.com

Anatek Labs Inc.

Anatek Labs specializes in low level pesticide tests the use "non-standard" organic analyses.

1282 Alturas Dr

Moscow ID 83843

Phone: (208) 883-2839

E-mail: Moscow@AnatekLabs.com

Web site: anateklabs.com

Animas Corp.

Animas Corp. is attempting to make diabetes management easier through product innovation, customer support and education programs. The company designed a high-tech insulin pump and is currently developing an optical sensor that is implanted under the skin to measure blood glucose. Its Sandpoint office serves as an Idaho distribution facility.

1219 Elm St.

Sandpoint, ID 83864

Phone: (208) 265-6336

Web site: animascorp.com

Bar Diamond

The Bar Diamond Laboratory tests cattle feed for nutritional value.

29575 Bar Diamond Lane

Parma, ID 83660

Phone: (208) 722-6761

Web site: bardiamond.com

Battelle

Battelle provides solutions and helps develop innovative products. The company works with more than 800 federal, state and local government agencies, providing cost-effective science and technology in the areas of national security, homeland defense, energy and environment, health and life science, transportation and space. Battelle is teamed with Washington Group International and is the managing contractor of the Idaho National Laboratory.

505 King Ave.

Columbus, Ohio 43201

Phone: (800) 201-2011 or (614) 424-6424

Web site: battelle.org

Bayer

Bayer is an international company that develops new products in the areas of crop protection, seeds, green biotechnology and non-agricultural pest control. Bayer CropScience is the international component of Bayer that develops innovative seed treatment solutions. However, it is important to note that Bayer not only has an agriculture department but also a health care department.

Boise, ID

Phone: 208-343-1454

E-mail: Rick.stull@bayercropscience.com

Web site: bayercropscienceus.com

BioFlora NW

BioFlora NW manufactures biological fertilizers and nutrients to improve the microbial levels in the soil. The company performs soil testing and crop monitoring to help improve yield and quality. Its four Idaho offices are located in Nampa, Aberdeen, Burley and Idaho Falls.

9757 Highway 45

Nampa, ID 83686

Phone: (208) 467-7958

E-mail: na-officemgr@biofloranw.com

Web site: biofloranw.com

Biomark Inc.

Biomark was created to help the fish and wildlife conservation program managers achieve cost effectiveness and efficiency through the creative application of the radio frequency identification technology. Biomark is the exclusive United States and Canadian distributor for Digital Angel Corp. of Destron Technologies products for fish and wildlife applications.

*7615 W. Riverside Drive
Boise, ID 83714
Phone: (208) 275-0011
Web site: biomark.com*

BioSynergy Health Alternatives

BioSynergy Health Alternatives provides pure pharmaceutical-grade health supplements for its customers.

*P.O. Box 16833
Boise, ID 83715
Phone: (208) 342-0880
E-mail: bigskytc@micron.net
Web site: biosynergy.com*

Blue Water Technologies Inc.

Blue Water Technologies was founded in February 2003 to commercialize a water treatment technology originally developed at the University of Idaho. Blue PRO™ technology has been shown to remove phosphorus, arsenic and heavy metals from drinking and wastewater. Blue Water Technologies has been awarded license rights for the patent-pending Blue PRO™ technology.

*10108 N. Atlas
Hayden, ID 83835
Phone: (208) 209-0391
Web site: blueh2o.net*

Bowman Manufacturing

Bowman Manufacturing develops chemical application equipment and has a product line that includes spraying and wicking equipment.

*3191 Lakewood Way
Boise, ID 83706
Phone: (800) 962-4660
E-mail: brent@bowmanmanufacturing.com
Web site: bowmanmanufacturing.com*

Caisson Laboratories Inc.

Caisson Laboratories is a manufacturer and provider of in vitro biology products. It carries products for use in both plant tissue and animal cell culture applications.

*P.O. Box 337
Rexburg, ID 83440
Phone: (208) 656-0880
Web site: caissonlabs.peachhost.com*

Clear Springs Foods

Clear Springs has a research and development center that produces vaccines, monitors water quality in Idaho's rivers and provides an array of fish health services to area farms.

P.O. Box 712

Buhl, ID 83316

Phone: (208) 543-4316

Web site: tommytrout.com

Collaborative Genetics

Collaborative Genetics provides radiological source disposal.

1152 Bond Ave.

Rexburg, ID 83440

Phone: (208) 359-2446

E-mail: info@collaborativegenetics.com

Web site: collaborativegenetics.com

Coyote Design

Coyote Design specializes in orthotic and prosthetic technologies.

2513 Federal Way, Suite 106

Boise, ID 83705

Phone: (800) 819-5980 or (208) 429-0026

Fax: (866) 819-5980

E-mail: info@coyotedesign.com

Web site: coyotedandm.com

Crowley Davis Research

Crowley Davis Research develops new technologies capable of solving problems such as encoding and retrieving large, complex data sets. This approach, called Biologically Inspired Computing, involves the transfer of knowledge and principles from biology into mathematics and computer science with the specific goal of developing more versatile, powerful and robust rule-based systems.

280 S. Academy Ave., Suite 140

Eagle, ID 83616

Phone: (208) 939-2976

Web site: cdres.com

Dairyland Seed Co.

Dairyland Seed Co. develops plant breeding programs in hybrid corn, soybeans and alfalfa.

504 W. Idaho

Homedale, ID 83628

Phone: (208) 337-4693

Web site: dairylandseed.com

DuPont Crop Protection

DuPont Crop Protection serves agriculture with products for the grain and specialty crop sectors. It also produces products and services that are used in forestry and vegetation management that include global herbicides, fungicides and insecticides. DuPont Crop Protection is headquartered in Wilmington, Delaware.

1007 Market St.

Wilmington, DE 19898

Phone: (800) 441-7515

Idaho Representative

Kevin Gallagher

Phone: (208) 562-1587

Web site: dupont.com/ag/index.html

Energy Laboratories

Energy Laboratories specializes in organic, inorganic and radiochemical analysis of water, waSuite, soil, air and petroleum. The lab is capable of measuring industrial hygiene, aquatic toxicity and radiation safety as well as conducting Naturally Occurring Radioactive Material field surveys and sampling services. Basic instrumentation includes: GC, GCMS, ICP, ICPMS, HPLC and AA. Energy Laboratories corporate headquarters are in Billings, Mont., and there are six branch laboratories in the West.

510 Lomax St.

Idaho Falls, ID

Phone: (208) 529-0077

Web site: energylab.com

Food Producers of Idaho

Food Producers of Idaho is an alliance of over 40 Idaho agricultural organizations. The members work together to present legislation in Idaho and put on many projects/seminars throughout the state to educate people on Idaho's agriculture industry.

Rick Waitley, Executive Director

55 SW 5th Ave.

Meridian, ID 83642

Phone: (208) 888-0988

E-mail: recwaitley@spro.net

Web site: foodproducersofidaho.org

Forage Genetics International

Forage Genetics develops, produces and markets alfalfa genetics and technologies. In its molecular biology laboratory, Forage Genetics has the capability for all phases of biotech trait integration including vector construction, plant transformation and molecular/biochemical characterization of transgenic plants.

P.O. Box 339

Nampa, ID 83653-0339

Phone: (208) 466-3568

Web site: foragegenetics.com

Gentec Inc.

Gentec Inc. researches and develops bean seed.

P.O. Box 2233

Twin Falls, ID 83301

Phone: (208) 734-6604

Glanbia Foods Inc.

Teams of nutritionists, microbiologists, immunologists, food scientists and applications experts at Glanbia are responsible for developing science-based nutritional solutions for a broad range of industries such as functional foods, dietary supplements, clinical, infant and sports nutrition.

50 Falls Ave., Suite 255

Twin Falls, ID 83301

Phone: (208) 736-1076

Web site: glanbiausa.com

Global Drug Testing Services

Headquartered in California, Global Drug Testing Services maintains a full line of drug testing options and services including hair, urine, saliva, blood and fingernail analysis. The company also employs certified breath alcohol technicians and consultants experienced in policy development and implementation.

2201 N. Government Way #C

Coeur d'Alene, ID 83814

Phone: (208) 664-6299

E-mail: ggs@gdtsrv.com

Web site: gdtsrv.com

Global Technologies Inc.

Global Technologies is headquartered in Fresno, Calif., with its research and development center located in Pocatello, Idaho. It is a privately held biotech company that focuses on safety in seafood, meat and poultry by eliminating disease-causing pathogens.

1656 Kraft Road

Idaho Falls, ID 83404

Phone: (208) 234-1351

Web site: globalfoodtech.com

Gustafson LLC

Gustafson offers a complete line of seed treatment products to protect crops including fungicides, insecticides and biological products to consumers across the nation. It is headquartered in Plano, Texas, but has a representative in Marsing, Idaho.

410 Simpkins Lane

Marsing, ID 83639

Web site: gustafson.com

Horizon Fertilizers Inc.

Horizon Fertilizers manufactures fertilizing liquids for the farming community.

*1970 E. 1200 South
Hazelton, ID 83335
Phone: (208) 829-5350*

Hoveround Corp.

Hoveround Corp. designs, manufactures, sells and services Hoveround personal mobility vehicles.

*446 Monarch St.
Eagle, ID 83616
Phone: (208) 938-5456
Web site: hoveround.com*

Idaho Alfalfa and Clover Seed Commission

The Idaho Alfalfa and Clover Seed Commission supports and funds research projects that deal with diseases, parasites and predators of pollinators of alfalfa and clover seed; pollination management; biological control of pests in alfalfa and clover seed production; cultural practices; plant populations; weed management; and promotion that will increase sales of Idaho grown alfalfa and clover seed.

*55 SW 5th Ave., Suite 100
Meridian, ID 83642
Phone: (208) 888-0988
Web site: alfalfaseed.org*

Idaho Association of Soil Conservation Districts

The Idaho Association of Soil Conservation Districts is a voluntary, non-profit association of Idaho's 51 soil conservation districts cooperating in the management of Idaho's natural resources. It was organized in 1944 to provide a unified voice for conservation in Idaho. It also provides a forum for discussion of common problems, including erosion and sediment control, water quality, forestry, research, conservation and environmental education, resource planning, wildlife and pasture and range.

*6003 Overland Rd., Suite 204
Boise, ID 83709
Phone: (208) 338-5900
Web site: iascd.state.id.us*

Idaho State Department of Agriculture

The Idaho State Department of Agriculture regulates and promotes all segments of agriculture in the state. It has six research laboratories, each concentrating on different areas of agriculture - animal health, dairy, feed and fertilizer, metrology, plant pathology and seeds.

*P.O. Box 790
Boise, ID 83701-0791
Phone: (208) 332-8500
Web site: agri.state.id.us*

Idaho Department of Environmental Quality

The Idaho Department of Environmental Quality was created by the Idaho Environmental Protection and Health Act to ensure clean air, water and land in the state and protect Idaho citizens from the adverse health impacts of pollution.

1445 N. Orchard

Boise, ID 83706

Phone: (208) 373-0550

Web site: deq.state.id.us

Idaho Department of Fish and Game

The Idaho Department of Fish and Game preserves, protects and manages Idaho wildlife while also promulgating the state's hunting and fishing guidelines. The Idaho Conservation Data Center is a part of Idaho Fish and Game. Its staff performs research projects on Idaho land and wildlife. The Idaho Department Fish and Game operates 19 fish hatcheries statewide.

P.O. Box 25

Boise, ID 83707

Phone: (208) 334-3700

Web site: fishandgame.idaho.gov

Idaho Diagnostic Sleep Center

The Idaho Diagnostic Sleep Center offers overnight sleep studies that monitor many different components of the sleeping cycle.

526-C Shoup Ave. W.

Twin Falls, ID 83301

Phone: (208) 736-7646

E-mail: billing@idsleeplab.com

Web site: idsleeplab.com

Innovative BiosySutems

Innovative BiosySutems focuses on the development of microbiological products for the agriculture and forestry industries, the production of bioremediation products for munitions and technical support for food-processing wastewater treatment.

121 W. Sweet Ave.

Moscow, ID 83843

Phone: (208) 885-3884

Interpath Laboratory

Interpath Laboratory has testing capabilities for routine and automated chemistry, special endocrinology, diagnostic immunology, urinalysis, hematology, immunohematology, coagulation, serology, microbiology, cytotechnology and allergies.

8660 W. Emerald St., Suite 102

Boise, ID 83704

Phone: (208) 375-2350

E-mail: WebMaster@InterpathLab.com

Web site: interpathlab.com

Jacklin Seed

Jacklin Seed is a grass seed research, production and marketing organization.

W. 5300 Riverbend Ave.

Post Falls ID 83854-9499

Phone: (208) 773-7581

Web site: simplot.com

Jerome Cheese

Jerome Cheese is owned by Davisco Foods, a family-owned international cheese and food ingredient company. Davisco is the industry leader in technology and production, accounting for 65 percent of whey protein isolates sold worldwide.

47 W. 100 South

Jerome, ID 83338

Phone: (208) 324-8806

Web site: daviscofoods.com

Johnson's Research

Johnson's Research conducts studies on livestock. The company analyzes the impact of various feed additives on the health of cattle.

24007 Highway 2026

Parma, ID 83660

Phone: (208) 722-5829

J.R. Simplot Co.

Simplot is a privately-held food and agribusiness corporation based in Boise. The company continually researches ways to improve agriculture.

999 Main St., Suite 300

Boise, ID 83705

Phone: (208) 672-2838

Web site: simplot.com

Kronus

Kronus is a leading provider of immunodiagnostic reagents and test kits to the research and clinical laboratory marketplace.

12554 W. Bridger St., #108

Boise, ID 83713

Web site: kronus.com/index.html

Laboratory Corp. of America

The Laboratory Corp. of America is a clinical laboratory that runs tests on clinical specimens.

6090 W. Emerald St.

Boise, ID 83704

Phone: (208) 376-5359

Web site: labcorp.com

Lead-Lok Inc.

Lead-Lok is a leader in biomedical innovations. The company manufactures and sells electrodes, electrotherapy devices, iontophoresis products, holter kits, chart paper, snap leads and other accessories.

500 Airport Way

Sandpoint, ID 83864

Phone: (208) 263-5071

E-mail: leadlok@leadlok.com

Web site: leadlok.com

Legacy Seeds Inc.

Legacy Seeds is a forage and turf company with seed operations in Nampa, Idaho, and Waupaca, Wisc. Its research component is focused on developing exceptional alfalfa varieties selected for yield, persistence, disease/insect resistance and forage quality.

16 18th Ave.

Nampa, ID 83651

Phone: (877) 588-7621

E-mail: info@legacyseeds.com

Web site: legacyseeds.com

Lifestream Technologies

Founded in 1994, Lifestream Technologies is a consumer healthcare company that develops, markets and sells a line of cholesterol monitors. They developed a home cholesterol monitor incorporating an embedded smart card reader. Designed for consumers with elevated cholesterol levels, the company's technology allows consumers to regularly monitor their cholesterol.

570 Clearwater Loop Building 1000, Suite D

Post Falls, ID 83854

Phone: (208) 457-9409

Web site: lifestreamtech.com

Magic Valley Compost LLC

Magic Valley Compost manufactures and markets Nu-Earth Compost throughout Idaho. The company also provides onsite custom composting and consulting services to a multitude of industries.

51A N. 300 West

Jerome, ID 83338

Phone: (208) 324-4536

Web site: magicvalleycompost.com

Magic Valley Laboratories Inc.

Magic Valley Laboratories performs environmental testing on drinking water, waste water, soil and plant tissue. It currently serves southern Idaho, eastern Idaho, eastern Oregon and Nevada.

1448 E. Center St. #H.

Pocatello, ID

Phone: (208) 478-1855

E-mail: mvlabs@northrim.net

Web site: magicvalleylabs.com

McAllister Technical Services

McAllister Technical Services manufactures innovative scientific equipment and custom devices.

W. 280 Prairie Ave.

Coeur d'Alene, ID 83815

Phone: (208) 772-9527

E-mail: solutions@mcallister.com

Web site: mcallister.com

Medeco Inc.

Medeco markets new, used and reconditioned medical, surgical, critical care and respiratory equipment including Series 7200AE PB ventilators to hospitals, clinics, surgery centers, dealers and exporters.

120 E. 38th St., #107

Boise, ID 83714

Phone: (208) 429-1138

E-mail: info@medeco-inc.com

Web site: medeco-inc.com

Melaleuca

Melaleuca is an international manufacturer and marketer of unique health, home and personal care products. The company has a strong research component that allows it to stay on the cutting edge of wellness products. It is headquartered in Idaho Falls.

3910 S. Yellowstone Highway

Idaho Falls, ID 83402

Phone: (208) 522-0700

Web site: melaleuca.com

Microbial-Vac Systems Inc.

Microbial-Vac Systems has developed the Microbial-Vac, a new system for sampling microbes from diverse surfaces. The company's abilities range from detecting anthrax on bioterrorism-infected mail to E. coli on food surfaces.

801 N. Lincoln

Jerome, ID 83338

Phone: (208) 324-7522

Web site: microbial-vac.com

Miller Research Inc.

Miller Research contracts residue and efficacy studies on row crops such as potatoes, sugar beets and beans.

1175 E. 800 North

Rupert, ID 83350

Phone: (208) 531-5124

Monsanto Co.

Monsanto is a provider of agricultural products and solutions. It uses innovation in plant biotechnology, genomics and breeding to improve productivity and reduce the costs of farming.

Highway 34 N.

Soda Springs, ID 83276

Phone: (208) 547-4300

Web site: monsanto.com

Mountain State Tumor and Medical Research Institute

Mountain States Tumor and Medical Research provides cancer treatment for patients including chemotherapy and radiation therapy. It is also involved in major medical research projects and clinical trials which allows the institute to be on the cutting edge when serving patients.

100 E. Idaho

Boise, ID 83705

Phone: (208) 381-2759

Web site: stlukesonline.org/SLMSTI

Mountain West Clinical Trials

Mountain West Clinical is a clinical laboratory that runs tests on clinical specimens.

1166 N. Cole Rd, Suite D

Boise, ID 83704-8658

Phone: (208) 672-8731

Nebeker Company Inc.

Nebeker Co. is a bleeding barn. It takes the blood and organs from donor animals and sells them to research institutions for medical research.

2102 E.. 1750 South.

Gooding, ID 83330

Phone: (208) 934-5580

Nez Perce Prairie Grass Growers Association

The Nez Perce Prairie Grass Growers Association fosters cooperation between grass seed producers, processors and agencies of government. It sponsors scientific research that promotes increased production of grass seed.

*55 S.W. 5th Ave., Suite 100
Meridian, ID 83642
Phone: (208) 888-0988
Web site: npqga.org/index.html*

North West Labs Inc.

North West Labs offers several services to dairymen including milk analysis, feed analysis and herd management software support. Milk is tested for butterfat content as well as protein and somatic cell count. Feed is tested using near infrared spectrophotometric analysis which greatly increases accuracy and speed.

*901 Lincoln
Jerome, ID 83338
Phone: (208) 324-7511
Web site: northwestlabs.net*

Northwest OsteoScreening Inc.

Northwest OsteoScreening is headquartered in Boise and is the largest mobile bone density, cholesterol and diabetes screening company in the Northwest. The company employs trained health care professionals who provide screenings and consultation services. These professionals include registered nurses, radiologic technologists, pharmacists and dietitians.

*P.O. Box 44413
Boise, ID 83711
Phone: (208) 378.4584
E-mail: info@nwosteo.com
Web site: nwosteo.com*

North Wind Inc.

North Wind offers robust capabilities in the areas of environmental restoration, engineering, program management, geosciences, waste management, natural and cultural resources, remediation technologies and civil construction services.

*545 Shoup Ave., Suite 200
P.O. Box 51174
Idaho Falls, ID 83405
Phone (208) 557-7889
Webs site: northwindenv.com*

Pathologists' Regional Laboratory

Pathologists' Regional Laboratory is a regional reference laboratory specializing in anatomical, clinical and forensic pathology.

415 6th St.

Lewiston, ID 83501

Phone: (208) 746-0516

E-mail: ssyverson@pathregional.com

Web site: pathregional.com

Panhandle Animal Laboratory

Panhandle Animal Laboratory performs animal laboratory testing for veterinary clinics.

5648 N. Government Way

Dalton Gardens, ID 83815

Phone: (208) 772-7916

Percussionaire Corp.

Percussionaire develops cardiopulmonary monitoring devices.

P.O. Box 817

Sandpoint, ID 83864

Phone: (208) 263-2549

Web site: www14.inetba.com/percussionaire/index2.htm

Pin-Nip

Pin-Nip is a full-line manufacturer of post-harvest and storage chemicals for potatoes.

2307 E. Commercial

Meridian, ID 83642

Phone: (208) 887-9766

Web site: pinnip.com

Pioneer Hi-Bred International Inc.

Pioneer Hi-Bred develops and produces seed products. By modifying genetic attributes of plants, Pioneer improves the characteristics of corn, soybeans, sunflower, alfalfa, sorghum, wheat and canola. It is headquartered in Iowa with a local sales contact in Nampa.

9178 Lakeshore Drive

Nampa, ID 83686

Phone: (208) 467-3314

Web site: pioneer.com

Potlatch Corp.

Potlatch produces lumber, plywood and particleboard panels, bleached pulp, bleached paperboard and consumer tissue products. The company also participates in research projects concerning the environment such as creating blister rust resistant white pine trees.

P.O. Box 1388

Lewiston, ID 83501

Phone: (208) 799-1781

Web site: potlatchcorp.com

Pneumex

Pneumex is a family owned company that produces innovative equipment used by chiropractors and physical therapists around the world. Pneumex is dedicated to developing cutting edge treatment programs for chronic back pain, Scoliosis and Kyphosis as well as programs for increased athletic performance and balance.

3115 N. Boyer Ave.

Sandpoint, ID 83864

Phone: (800) 447-5792

E-mail: pneumex@pneumex.com

Web site: pneumex.com

Pyrite Hydrochem

P.O. Box 453

Post Falls, ID 83877

Phone: (208) 773-5223

E-mail: pyritejr@imbris.net

Rangen

Rangen raises fish and other aquatic animals for commercial use. The company has its own laboratory where staff provide technical support for feed customers and work to advance aquaculture's science and technology base through product development, diagnostics, extension, water quality testing and aqua-cultural engineering.

115 13th Ave. S.

Buhl, ID 83316

Phone: (208) 543-6421

Web site: rangen.com

RxElite

RxElite manufactures high quality, innovative and aggressively-priced generic pharmaceuticals with a focus in sterile liquid dose products and select oral solids.

1404 N. Main St., Suite 200

Meridian, ID 83642

Phone: (208) 288-5550

E-mail: consumercare@rxelite.com

Sandcreek Echo Inc.

Sandcreek Echo is a cardiac diagnostic center that performs a wide variety of testing such as echo cardiograms and EKGs.

2050 E. 25th St.

Idaho Falls, ID 83404

Phone: (208) 529-2561

Sapidyne Instruments

Sapidyne Instruments studies molecular interactions using solution phase binding affinity and kinetic measurements on unmodified molecules. Its patented KinExA technology allows measurement of the affinity and kinetics of exceptionally strong, weak, fast and slow biological interactions.

967 E. Park Center Blvd.

Boise, ID 83706

Phone: (208) 345-3400

Web site: sapidyne.com

Sawtooth Orthotics & Prosthetics Inc.

Sawtooth Orthotics & Prosthetics specializes in prosthetics for adult and pediatric patients with many different diseases and conditions.

780 S. 14th St.

Boise, ID 83705

Phone: (208) 344-9981

E-mail: saw2tho@micron.net

Web site: sawtoothsupport.com

Seedbiotics

Seedbiotics, a Becker Underwood company, is a specialty seed coating company, founded in 1989. It offers coatings, which aid seeds in becoming healthy plants.

818 Paynter Ave.

Caldwell, ID 83605

Phone: (208) 455-0578

Web site: seedbiotics.net

Seminis Vegetable Inc.

Seminis is an international company that is the largest developer, grower and marketer of fruit and vegetable seeds in the world. Its hybrids improve nutrition, boost crop yields, limit spoilage and reduce the need for chemicals.

2732 E. 4200 North

Twin Falls, ID 83301

Phone: (208) 733-2667

E-mail: info@seminis.com

Web site: seminis.com

Siarco Ag

Siarco Ag performs efficacy testing on onions, potatoes, peas, corn, wheat, carrots, lettuce, cherries and sugar beets.

27080 Pearl Road

Parma, ID 83660

Phone: (208) 863-9530

E-mail: gbeaver@siarco-ag.com

Web site: siarco-ag.com

S.M. Stoller Corp.

Stoller provides its customers with expertise in the areas of high-hazard site and groundwater remediation, facility decommissioning, radioactive and hazardous waste management, environmental surveillance, nuclear engineering, ecological studies, risk assessment and regulatory compliance.

1780 First St.

Idaho Falls, ID 83401

Phone: (208) 525-9358

Web site: stoller.com

Snake River Cardiovascular and Pulmonary Laboratory

Snake River Cardiovascular and Pulmonary Laboratory researches and performs medical testing on cardiovascular and pulmonary diseases.

2001 S. Woodruff, Suite 12B

Idaho Falls, ID 83404

Phone: (208) 529-2498

Stukenholtz Laboratory Inc.

Stukenholtz Laboratory is a consulting lab that performs fertilizer water, heavy metal, feed and forage testing.

2924 Addison Ave. East

Twin Falls, ID 83301

Phone: (208) 734-3050

Web site: stukenholtz.com

Syngenta Seeds

Syngenta works on crop protection and ranks third in the high-value commercial seed market. Rogers is a brand with research in vegetable seeds that is backed by Syngenta.

*P.O. Box 4188
Boise, ID 83704-4188
Phone: (208) 322-7272
Web site: rogersadvantage.com*

TenXsys Inc.

TenXsys is developing a system of advanced, configurable telemetry devices that allow researchers to monitor and collect biometric and environmental data including ambient noise amplitude and even audio recordings.

*408 S. Eagle Road, Suite 201
Eagle, ID 83616
Phone: (208) 938-8110
E-mail: contact@tenxsys.com
Web site: tenxsys.com*

Tessengerlo Kerley Inc.

Tessengerlo Kerley produces fertilizers that provide crops with the nutrition necessary to produce the highest quality and maximum yields demanded in today's agricultural economy. Its products are used in field, forage, tree, vegetable and specialty crops under dryland and irrigated plantings.

*1667 Sod Farm Road
Pocatello, ID 83204
Phone: (208) 528-0600
Web site: tkinet.com*

Teton Microbiology Laboratory

Teton Microbiology Laboratory conducts clinical testing on microbiological specimens taken from human patients.

*510 Lomax St.
Idaho Falls, ID
Phone: (208) 529-0077*

Thorne Research

Thorne Research develops and manufactures nutritional supplements for health-care practitioners. The company designs its products so the most sensitive allergy patients can avoid unnecessary additives.

*P.O. Box 25
Dover, ID 83825
Phone: (208) 263-1337
Web site: thorne.com*

Transgenic Software

Transgenic Software is a bioinformatics technology provider for the biopharma industry. Its primary focus is to provide biotech and pharmaceutical companies with the technology and tools necessary for meeting data management, data tracking, pre-clinical data integration and regulatory compliance needs.

2422 12th Ave. Road, #208

Nampa, ID 83686

Phone: (208) 899-6767

Web site: transgenic-software.com

Treasure Valley Milk Testing Laboratory

Treasure Valley Milk Testing's results can be delivered in a variety of formats and methods. Testing is provided for somatic cell count, fat, lactose, protein and non-fat solids. A fully-automated sampling and testing process permits the completed results for an entire herd to be available online.

Meridian, ID 83642

Phone: (208) 888-0040

E-mail: tvmtl@tvmtl.com

Unicep Packaging Inc.

Unicep Packaging specializes in contract packaging customer-supplied products into MicroDose® and Twist-Tip® unit-dose vials and VersaPak™ thermoform-fill-seal dispensers.

1702 Industrial Drive

Sandpoint, ID 83864

Phone: (208) 265-9696

Web site: unicep.com

U.S. Department of Agriculture

Northwest Irrigation and Soils Research Laboratory

Currently, research at the laboratory is organized under four major research efforts: manure management to assess nutrient losses, emissions and pathogen transport; water quality protection in irrigated cropping practices and systems; irrigation management to reduce erosion and improve water use efficiency; and enhancement of sugar beet germplasm for improved disease resistance and productivity.

3793 N. 3600 East

Kimberly, ID 83341

Phone: (208) 423-5582

Web site: nwisrl.ars.usda.gov

Northwest Watershed Research Center

Current research topics under investigation include hydrologic modeling of snow distribution, accumulation and melt; frozen-soil effects on infiltration, runoff and erosion; variability and modeling of weather and climatic variables; wild and prescribed fire impacts on vegetation, soil and water resources; invasive weed management; emergency fire rehabilitation; rangeland restoration; remote sensing; and development of decision support tools and models for sustainable management of rangeland ecosystems.

800 Park Blvd., Suite 105

Boise, ID 83712-7716

Phone: (208) 422-0700

Web site: usda.gov

Small Grains and Potato Germplasm Research Unit

The unit's research programs focus on potato and small grains germplasm improvement and increasing production efficiency in rainbow trout through the use of grain-based feeds. This work is accomplished through genetics and breeding research with trout, potatoes, barley and oats as well as through maintaining, evaluating and distributing germplasm stocks; research to improve breeding efficiency and to identify valuable new targets for germplasm enhancement; and research on trout genetics, physiology and nutrition.

1691 S. 2700 West

Aberdeen, ID 83210

Phone: (208) 397-4162

Web site: ars.usda.gov

U.S. Sheep Experiment Station

Station scientists address problems defined in the Reproductive Efficiency; Genetic Improvement; Nutrient Intake and Use; Growth and Development; and Product Quality components of the NP 101 Action Plan and problems defined in the Ecosystems and Their Sustainable Management; Grazing Management; Livestock Production and the Environment; and Integrated Management of Weeds and Other Pests components of the NP 205 Action Plan.

U.S. Interstate 15

Dubois, ID 83423

Phone: (208) 374-5364

Web site: ars.usda.gov

U.S. Department of Energy

The U.S. Department of Energy has four main goals, one of which is to protect national and economic security by providing world-class scientific research capacity and advancing scientific knowledge.

Idaho Operations Office

1955 Fremont Ave.

Idaho Falls, ID 83401-1203

Phone: (208) 526-5665

Web site: energy.gov

U.S. Forest Service

The U.S. Forest Service is the largest forestry research organization in the world and provides technical and financial assistance to state and private forestry agencies.

Intermountain Region

324 25th St.

Ogden, UT 84401

Phone: (801) 625-5306

Web site: fs.fed.us

U.S. Geological Survey, Water Resources Division

This U.S. government agency provides maps, reports and information to help others manage, develop and protect America's water, energy, mineral and land resources. It helps find natural resources needed to build tomorrow and supply scientific understanding necessary for minimizing or mitigating the effects of natural hazards and environmental damage caused by human activities.

230 Collins Road

Boise, ID 83702

Phone: (208) 387-1300

Web site: id.water.usgs.gov

Western Laboratories Inc.

Western Laboratories analyzes agricultural soils, plant tissue, feed and fertilizers. It also offers consulting services for manufacturing chemicals and experimental design.

P.O. Box 1020

Parma, ID 83660

Phone: (208) 722-6564

Western Pathology Associates LLC

Western Pathology is one of the leading anatomic pathology practices in southeastern Idaho. The company offers a broad range of testing and consultation services used by physicians and patients in the detection, diagnosis, evaluation and treatment of cancer and other medical conditions.

246 N. 18th Ave.

Pocatello, ID 83201-3356

Phone: (208) 233-3794

E-mail: breynolds@wpa-path.com

Web site: wpa-path.com

World Wide Equine Inc.

World Wide Equine is an Idaho-based business specializing in equine dentistry. The company manufactures nearly 300 different equine dentistry instruments.

P.O. Box 1040

Glenns Ferry, ID 83623

Phone: (208) 366-2550

E-mail: wwequine@horsedentistry.com

Web site: horsedentistry.com

Universities and Research Institutions

Albertson College of Idaho

The Albertson College of Idaho Biology Department is conducting research in various aspects of biology. Below are two examples:

- Professor of Biology Dr. Art Ayers is researching the molecular interactions of the pericellular matrix of cartilage. (aayers@albertson.edu)
- Associate Professor of Biology Dr. Sara Heggland is researching differential cell sensitivity to cadmium and cadmium-sequestering agents. (sheggland@albertson.edu)

2112 Cleveland Blvd.

Caldwell, ID 83605

Phone: (208) 459-5331

Web site: albertson.edu/biology

Boise State University

The Boise State University Biology Department is conducting research on many different topics. Below are two examples:

- Associate Professor of Biology Dr. Julia Oxford's is investigating the function of the individual molecular constituents of the extra cellular matrix in health and in disease. (joxford@boisestate.edu)
- Associate Professor of Biology Dr. SteSuitStephen Novak's research involves plant population ecology and evolutionary biology and investigations of the factors that influence the level and structure of genetic variation. (snovak@boisestate.edu)

221 Science-Nursing Building

Boise State University

Boise, ID 83725-1515

Phone: (208) 426-3262

Web site: boisestate.edu

Boise VA Medical Center

The staff at the Boise VA Medical Center conducts extensive ongoing medical research on many different diseases.

500 W. Fort St.

Boise, ID 83702

Phone: (208) 422-1000

Idaho National Laboratory

The Idaho National Laboratory performs extensive research on all areas of science.

2351 N. Boulevard

P.O. Box 1625

Idaho Falls, ID 83415

Phone: (208) 526-0111

Web site: inl.gov/index

Idaho State University

Idaho State University's Department of Biological Sciences is conducting extensive research on many different topics.

- Associate Professor of Biological Sciences Dr. Curt Anderson's current research involves the long term goal of understanding the organization and evolution of the neural control of behavior.
- Professor Gene M. Scalarone's laboratory has been involved with the development of antigenic reagents and enzyme-linked immunosorbent assays for histoplasmosis, coccidiomycosis and blastomycosis.

Idaho State University

921 S. 8th Ave.

Pocatello, ID 83209-8007

Phone: (208) 282-3767

E-mail: bios@isu.edu

Web site: isu.edu

Northwest Nazarene University

- Professor Chris Kapicka's research interest pertains to the properties of ion channels in membranes of the cell. Professor Kapicka is working on a Murdock Life Science grant in collaboration with the Veteran's Administration Research Unit in Boise on the effects of anthracyclines, or cancer drugs, on the heart.
- Professor Bill Fyffe is studying the biochemistry of oxidative stress within the nerve net of the worm, *Lumbricus terrestris*.

623 Holly St.

Nampa, ID 83686

Web site: nnu.edu

University of Idaho - Agricultural Experiment Station

The Idaho Agricultural Experiment Station is the administrative research division of the College of Agriculture at the University of Idaho and is responsible for the college's statewide programming in agricultural research.

P.O. Box 442337

Moscow, ID 83844-2337

Phone: (208) 885-7173

Web site: ag.uidaho.edu

University of Idaho Department of Microbiology, Molecular Biology and Biochemistry

This department is currently performing extensive research in the areas of bioremediation, biodegradation, developmental and cellular biology, infectious diseases, signal transduction and gene regulation, and protein structure and function.

- Associate Professor Dr. Alan Caplan's research involves the metabolic engineering of plants for phytoremediation.
- Professor of Microbiology Dr. Don Crawford's research is titled Lignin Degradation by Streptomyces: Enzymology and Genetics of Lignin Peroxidase, Xylanase and Cellulase Production.

University of Idaho

Life Science 142

P.O. Box 443052

Moscow, ID 83844-3052

Phone: (208) 885-7966 or (208) 885-6518

E-mail: mmbb@uidaho.edu

Imaging Technology

Imaging Technology

A description of Idaho's growing imaging sector includes fantastic voyages through the human body made by tiny cameras, unmanned airplanes that transmit visual information and imaging sensors implanted deep into the earth that enable scientists to map the underground world. Imaging is a broad industry that encompasses everything from improved printing technology to new ways to view and target cancer.

Inside the Directory

Inside the imaging directory are companies, agencies and research institutions that focus on products, applications and services, which utilize semiconductor, software and new image processing methodologies to bring about new ways of capturing, manipulating and interpreting visual data.

Companies & Agencies

Allosys Corp.

AlloSys provides design services and development support for companies involved with high frequency and wireless products. AlloSys offers the following tools and capabilities: DC through RF measurement and analysis tools to 6 GHz; spectrum analysis equipment to 22 GHz; conventional machining and sheet metal tooling; PC rapid prototyping system; and numerous general purpose measurement and testing systems.

5650 Fieldcrest Dr.

Boise, ID 83704 - 1903

Phone: (208) 377-3625

E-mail: info@allosys.com

Web site: allosys.com

American Semiconductor Inc.

American Semiconductor is a pure-play foundry for wafer fabrication and advanced process development. American Flexfet™ IDG-SOI-CMOS processes provide dynamic Vt capability for high performance CMOS imager pixel circuitry. The company also offers a unique sensor option process flow that allows foundry customers to insert custom photo-diode and sensors into the advanced IDG-SOI-CMOS. In addition to Flexfet™ or full custom CMOS wafer fabrication, American can support custom process development, probing services, assembly and packaging coordination and general lab services.

3100 S. Vista Ave., Suite 230

Boise, ID 83705

Phone: (208) 336-2773

E-mail: mikescott@americansemi.com

Web site: americansemi.com

AMI Semiconductor

AMI Semiconductor designs, develops and manufactures a broad range of integrated circuits used in a variety of applications for the automotive, medical, industrial, communications, aerospace, computing, defense and consumer sectors.

2300 Buckskin Road

Pocatello, ID 83201

Phone: (208) 233-4690

E-mail: tamera_drake@amis.com

Web site: amis.com

Computrol Inc.

Computrol is a provider of electronic manufacturing services to original equipment manufacturers. Computrol focuses on prototyping and manufacturing low- to medium-volume, high-mix production of PCB, box build, cable harness and backplane assemblies.

*499 E. Corporate Drive
Meridian, ID 83642
Phone: (208) 887-1000
Web site: computrol.com*

Control Vision Inc.

Control Vision designs digital camera systems to monitor high-temperature/high-luminosity processes. Its camera systems provide real-time video imagery of these processes using patented technology. Control Vision has produced several lines of camera systems including LaserStrobe, WeldingCam and InvisiCam.

*PMB 243
3527 S. Federal Way, Suite 103
Boise, ID 83705
Phone: (208) 523-5506
Web site: controlvisioninc.com*

Crowley Davis Research

Crowley Davis is an independent research group that desires to narrow the distance between simulations of biological principles and incorporating those principles into the computing engine itself. Crowley Davis is currently engaged in several projects attempting to model and virtualize complex biological systems in conjunction with the U.S. Army.

*Crowley Davis Research Inc.
280 S. Academy Ave., Suite 140
Eagle, ID 83616
Phone: (208) 939-2976
Fax: (208) 939-2856
E-mail: jointheteam@cdres.com
Web site: cdres.com*

Cypress Semiconductor

Cypress has a product portfolio that includes a broad selection of wired and wireless USB devices, CMOS image sensors, timing solutions, network search engines, specialty memories, high-bandwidth synchronous and micro power memory products, optical solutions and reconfigurable mixed-signal arrays.

*Cypress Communications
1603 E. Silverspot Lane
Boise, ID 83706-6124
Phone: (208) 387-1797
Web site: cypress.com*

Dedicated Devices Inc.

Dedicated Devices is focused on delivering innovative and easy-to-use digital home networking solutions to the new residential home market. The company has a co-branded distribution agreement with Leviton Integrated Networks, the leader in residential home networking and a division of Leviton Manufacturing.

418 S. 9th St., Suite 300

Boise, ID 83702

Phone: (208) 442-1248

E-mail: info@dedicateddev.com

Web site: dedicateddev.com

Extended Systems

Extended Systems develops and distributes infrared, Bluetooth, synchronization and database solutions. Its mobile device solutions have been incorporated into hundreds of device types by major manufacturers including Palm, Motorola, HP, 3Com, Fujitsu, NEC, Mitsubishi, Johnson Controls and Visteon.

5777 N. Meeker Ave.

Boise, ID 83713

Phone: (208) 322-7800

E-mail: info@extendedsystems.com

Web site: extendedsystems.com

SCP Global Technologies Inc.

SCP is an industry leader in the development of surface preparation technology and equipment used in the manufacture of semiconductors. Major device manufacturers worldwide use SCP's surface preparation equipment to etch, clean and strip films and surfaces of silicon wafers.

8455 Westpark St.

Boise, ID 83704 USA

Tel: (208)685-5000

Toll free: (800) 223-1691

Fax: (208) 685-4540

E-mail: jdoster@scpglobal.com

Web site: scpglobal.com

Hewlett-Packard

Besides being a world leader in the production of printers, scanners, digital cameras and related technology, Hewlett-Packard is heavily invested in creating imaging technology that will change the way people interact with computers, images and information. Its recent patents and technology puts Hewlett-Packard on the forefront of a new age of image reproduction and rendering.

11311 Chinden Blvd.

Boise, ID 83714

Phone: (208) 396-6000

Web site: hp.com

Idaho Airships Inc.

Idaho Airships is a science-based imaging company. It is the world's premiere operator of robotic and remotely-controlled helicopters, airplanes and giant pods for aerial imaging and remote sensing. Idaho Airships also produces 2D and 3D multimedia presentations using aerial, ground and macro photographic imaging.

2940 S. Goshen Way

Boise, ID 83709

Phone: (208) 861-2477

E-mail: lgeis@idahoairships.com

Web site: idahoairships.com

ImQuant Inc.

ImQuant, a biotech startup company, is involved in image quantification and treatment tailoring research and is partnered with Boise State University, Idaho State University, Saint Alphonsus Regional Medical Center and the Mayo Clinic. Further, the company is involved in a large project that places advanced imaging data from PET, SPECT, MRI and MRSI into a proprietary format that expresses treatment-induced image changes mathematically as in numbers, graphs or equations.

E-mail: Dr. Tim Sawyer, timsawyer@cableone.net

Manning Applied Technology

This company upgrades obsolete Fourier transform infrared, or FT-IR, spectrometers and adds step-scanning capabilities. It provides consulting and contract research in the related areas of FT-IR instrumentation and spectroscopy, including digital signal processing and electronics. More recently Manning has developed a series of instruments for polymer rheo-optical measurements and pioneered in the area of very-rapid-scan FT-IR spectrometry.

419 S. Main St.

P.O. Box 265

Troy, ID 83871

Phone (208) 835-5402

Fax (208) 835-5403

E-mail: info@appl-tech.com

Web site: appl-tech.com

Micron Technology Inc.

Micron is leading in the development and implementation of CMOS image sensors. These sensors result in smaller, high-performance products that take better-quality pictures in digital cameras, cell phones and other applications. CMOS image sensors are set to replace Charge-Coupled Devices, the prevailing technology in image capture for 30 years.

8000 S. Federal Way

P.O. Box 6

Boise, ID 83707-0006

Phone: (208) 368-3900

E-mail: salesmkt@micron.com or Trudy Sullivan tsullivan@micron.com

Web site: micron.com

Night Force Precision Optics - Lightforce USA

Manufactures and engineers various weapon optics.

1040 Hazen Lane

Orofino, ID 83544

Phone: (208) 476.9814

Web site: nightforceoptics.com

Nighthawk Radiology Services

Based in Coeur d'Alene, NightHawk Radiology Services uses multiple teams of radiologists and teleradiologists located in Zurich, Switzerland, and Sydney, Australia, to provide 24/7 service to more than 300 hospitals, radiology groups and clinics throughout the U.S.

250 Northwest Blvd.

Coeur d'Alene, ID 83814

Phone: (208) 676-8321

E-mail: info@nighthawkrad.net

Web site: nighthawkrad.net

Nimbus 360

Nimbus offers experience in sound, acoustic and image projection needs for corporate conference rooms, retail environments and training facilities.

8555 W. Hackamore Drive

Boise, ID 83709 -1692

Phone: (208) 426-0565

Fax: (208) 426-0360

E-mail: info@nimbus360.com

Web site: nimbus360.com

North by Northwest Productions

This motion picture production and distribution company, structured specifically for today's creative and economic environment, has an award-winning production department and a post-production department that specializes in digital intermediate and VFX work for feature films, television commercials and cinema advertising.

601 W. Broad St.

Boise, ID 83702

Shane Jibben, Managing Director

Phone: (208) 345-7870

Fax: (208) 345-7999

E-mail: sjibben@nxnw.net

Web site: nxnw.net

North Wind Inc.

North Wind's geographic information systems capability includes optimal interpolation, 3-D modeling, spatial analysis, remote sensing, global positioning survey and data collection, retrieval, input, verification, storage and output. North Wind's projects include vegetation studies, surface topology, drainage networks, watershed analysis, habitat studies, slope computations and ground truthing. Products included in the geographic information system products are maps, tables, graphs, satellite imagery, aerial photos and videos.

P.O. Box 51174

1425 Higham

Idaho Falls, ID 83405

Phone: (208) 528-8718

E-mail: jbukowski@nwindenv.com

Web site: nwindenv.com

Optimal Solutions Software LLC

Optimal produces industrial software for use with computational fluid dynamics. The software is built upon proprietary in-house analysis tools and has evolved into a sophisticated package generally useful to CFD engineers. It can arbitrarily deform the shape of a computerized object whose shape is defined by the points of a grid.

2825 West 1700

Idaho Falls, ID 83402

Phone: (208) 521-4660

E-mail: mlandon@optimalsolutions.us

Web site: optimalsolutions.us

PakSense Inc.

PakSense has solutions for tracking the environmental conditions of products in the supply chain. By embedding sensory electronics directly into a small product label, Paksense provides application-specific monitoring of products at the master carton, case, tub, bin and tote levels.

5256 Fairview Ave.

Boise, ID 83706

Phone: (208) 629-3358

Fax: (208) 441-7426

Web site: paksense.com

Positron Systems

Positron Systems uses induced positron annihilation technologies to detect fatigue, embitterment and defects at the atomic level. This technology allows Positron Systems to locate damage before cracks appear from the as-manufactured state to failure. The technology can be used on a variety of materials including metals, ceramics, polymers and composites and enables the customer to predict remaining life of expensive components. Positron Systems' test and analysis center is located at Idaho State University's Idaho Accelerator Center.

Positron Systems Inc. 1651 Alvin Ricken Drive

Pocatello, ID 83201-2726

Phone: (208) 232-1505

E-mail: scottr@positronsystems.com

Preco Electronics Inc.

Preco is the inventor and original patent holder of the reverse motion alarm, known in the industry as the Bac-A-Larm, and has the largest install-base of these products in the world. Nearly every major original equipment manufacturer in North America and Europe that uses reverse motion alarms uses Preco Electronics.

415 N. Maple Grove

Boise, ID 83704

Phone: (208) 323-1000

E-mail: sales@preco.com

Web site: preco.com

Saint Alphonsus Regional Medical Center

Through partnerships with a local biotech startup ImQuant, Boise State University and Idaho State University, Saint Alphonsus is involved in image quantification and treatment tailoring research. Specifically, using experimental software currently being created at the Mayo Clinic as part of a research and development project with ImQuant, Saint Alphonsus is involved in a large project that places advanced imaging data from PET, SPECT, MRI and MRSI into a proprietary format that expresses treatment-induced image changes mathematically as in numbers, graphs or equations.

1055 N. Curtis Road

Boise, ID 83706

Phone: (208) 367-2121

E-mail: inquiries@sarmc.org or Dr. Tim Sawyer timsawyer@cableone.net

St. Luke's Regional Medical Center

St. Luke's Regional Medical Center and the Boise Radiology Group work together to provide diagnostic imaging, fluoroscopic procedures, nuclear medicine imaging, ultrasonography, magnetic resonance imaging, interventional radiology imaging, screening and diagnostic breast imaging, computed tomography imaging and an assortment of associated procedures. Boise Radiology Group works concurrently with St. Luke's Regional Medical Center on research studies in prostate, lung, colon and ovarian cancers and involving the National Lung Cancer Screening Trial research study.

703 Americana Blvd., Suite 100

Boise, ID 83705

Phone: (208) 706-7680

E-mail: kimballk@SLRMC.ORG

Web site: stlukesonline.org

Studio 01

Studio 01 is a digital production studio formed from the merger of four premiere interactive media companies. The company has created art and motion graphics since these capabilities were first introduced on the personal computer. More recently, Studio 01 has developed innovative DVDs, CD-ROMs and Web sites for some of the largest enterprise companies in the world. Its projects include building interactive 3D games, Hollywood Web sites and DVDs as well as corporate presentations, product catalogs and training materials delivered on tape, CD-ROM and DVD.

910 Main St., Suite 364

Boise, ID 83702

Phone: (208) 830-0361

E-mail: info@studio01.tv

Web site: studio01.tv

Tec-Masters Inc.

Tec-Masters is engaged in a variety of U.S. Department of Defense research and development efforts as well as training and doctrine. Tec-Masters has worked for years in the creation of Army models and simulators to allow for more realistic training.

P.O. Box 1424

5465 E. Terra Linda Way

Nampa, ID 83653-1424

Phone: (208) 336-8779

Fax: (208) 342-8687

E-mail: dharrison@tecmasters.com

Web site: tecmasters.com

Telemetric

Telemetry's products enable two-way communications using commercial cellular networks. Products use digital general packet radio service technology on cellular networks or control channel technology on its Aeris network. Telemetric digital products transmit information at data rates of up to 85kbps via cellular network and its intelligent remote devices support a variety of data modes to optimize speed, efficiency and minimize cost. Telemetric multimode and analog products transmit information using control channels of the digital and analog cellular networks. Using this communication method, small packets of data are sent over the cellular networks at a low cost and with excellent coverage.

9941 W. Emerald St.

Boise, ID 83704

Phone: (208) 658-1292

Fax: (208) 323-5575

E-mail: sales@telemetric.net

Web site: telemetric.net

Teradyne

Teradyne is an international leading supplier of automatic test equipment and interconnection systems. These systems test advanced electronic manufacturing equipment in a variety of industries including advanced semiconductors, military, aerospace, telecom and automotive solutions.

8620 W. Emerald, Suite 150

Boise, ID 83704

Phone: (208) 377-8378

E-mail: tom.newman@teradyne.com

Web site: teradyne.com

Teton Nuclear Medicine Service

Teton Nuclear uses safe, painless and cost-effective techniques to image the body and treat disease. Nuclear medicine imaging is unique in that it documents organ function and structure in contrast to diagnostic radiology, which is based upon anatomy. It is a way to gather medical information that may otherwise be unavailable, require surgery or necessitate more expensive diagnostic tests.

2001 S. Woodruff, Suite 20

Idaho Falls, ID 83404

Phone: (208) 525-3201

E-mail: tetonnuc@srv.net

Web site: tetonnuclearmedicine.com

Vision Air Research

Vision Air Research provides environmental and wildlife video recording services to state and private agencies. The company uses advanced infrared and color video on mini-digital videotape. Digital cameras are mounted on airplanes to record unique wildlife images.

904 E. Washington St.

Boise, ID 83712

Phone (208) 841-9566

E-mail: info@visionairresearch.com

Web site: visionairresearch.com

Universities- and Research Institutions

Boise State University

- Research Assistant Professor of Geosciences Dr. John Branford's research interests include ground-penetrating radar, reflection seismology, wave field modeling, reflection imaging, waveform attribute analysis and material property estimation. (jbradford@boisestate.edu)
- Associate Professor of Computer and Electrical Engineering Dr. Elisa Barney-Smith focuses on document imaging. Dr. Barney-Smith's current projects center on developing models of the degradations produced by optical page scanners, printers, FAX machines and photocopiers. These models will be used to improve the recognition and processing of the images and will be calibrated with bi-level scans of high-contrast images. (ebarneysmith@boisestate.edu)

1910 University Drive

Boise, ID 83725

Phone: (208) 426-1000

E-mail: margaretscott@boisestate.edu

Web sites: earth.boisestate.edu and coen.boisestate.edu

Idaho National Laboratory

The Idaho National Laboratory has numerous projects that overlap into advancing imaging research. As part of the laboratory's efforts in adaptive robotics, researchers are working on simultaneous mapping and localization, which allows robots with advanced artificial intelligence to guide themselves through completely unknown areas in a directed and patterned manner.

2351 N. Boulevard

P.O. Box 1625

Idaho Falls, ID 83415

Phone: (208) 526-0111

E-mail: Nancy.Carlson@inl.gov

Web site: inl.gov/index.shtml

Idaho State University

- **Idaho Accelerator Center**—Active research areas include laser-electron back scattering, non-destructive evaluation, assay, elemental analysis, imaging, basic nuclear measurements and radiation effects and nuclear physics. Contact Dr. Frank Harmon, director, Idaho Accelerator Center, (208) 282-5877.
- **GIS Training and Research Center**—Active research projects include geo-spatial and range sciences, temporal land cover change and rangeland fire severity modeling, invasive weeds and range management, invasive weeds in the Swan Valley, wild land-urban interface fire susceptibility modeling and selenium information systems. Contact Keith Weber, director, GIS Training and Research Center, (208) 282-3606.
- **Geospatial Training and Analysis Cooperative**—GeoSTAC is a cooperative effort between universities to serve the respective communities in training and applying the technologies of geographic information systems, remote sensing and field mapping and global positioning system techniques. Contact Dr. Sudhanshu Sekhar Panda, coordinator, GeoSTAC, (208) 282-6094.

- **Boise Center Aerospace Laboratory**—This new research and educational remote sensing laboratory is funded by NOAA and located in the Department of Geosciences at the Idaho Water Center in Boise. The Boise Center Aerospace Laboratory offers fundamental and applied research in remote sensing and educational opportunities for students throughout the community and in the geosciences department. Contact Dr. Nancy Glenn, director, Boise Center Aerospace Laboratory, (208) 373-1754.
- **Molecular Research Core Facility**—Routine activities include automated DNA sequencing and micro satellite analysis or genotyping, PCR, oligonucleotide synthesis, electrophoresis and gel documentation and analysis. Contact Dr. Marjorie Matocq, director, Molecular Research Core Facility, (208) 282-4890.
- **Idaho State University - Department of Geosciences Digital Mapping and Research Laboratory**—Mapping, remote sensing, digital mapping. Contact Dr. Scott Hughes, chair, Department of Geosciences, (208) 282-3365.

Idaho State University

921 S. 8th Ave.

Pocatello, ID 83209

Phone: (208) 282-0211

E-mail: fordlawr@isu.edu or eastdebb@isu.edu

University of Idaho

- Dr. Gregory Donohoe, research associate and professor at the Center for Advanced Microelectronics and Bio-molecular Research (donohoe@cambr.uidaho.edu), is a principal investigator and program manager for the Reconfigurable Data Path Processor, a parallel processor for spacecraft signal processing. He is responsible for architecture, VLSI chip design, software and applications.
- Dr. James Frenzel, associate professor of electrical and computer engineering (jfrenzel@ee.uidaho.edu), has research interests in application of genetic algorithms; VLSI testing and fault-tolerant computing; and algorithms and architectures for efficient solution of problems in communications, image processing and signal processing.
- Dr. Richard B. Wells, associate professor of electrical and computer engineering and associate professor of neuroscience (rwells@mrc.uidaho.edu), has research interests in signal processing methods to improve image quality, computer-based physical modeling of imaging and printing engines and in the application of neural networks to problems in image processing and image quality.

P.O. Box 441023

University of Idaho

Moscow, ID 83844-1023

Phone: (208) 885-6707

Web site: www.ee.uidaho.edu

Power and Energy

Power and Energy

With gas prices soaring, interest in alternative fuels has heightened, spurring the race forward for the next generation of energy sources. Idaho is at the front in this race.

Idaho is developing into a testing ground for numerous renewable energy technologies. That is not surprising, considering the state boasts a variety of elements that make it a viable laboratory for the next step in power generation. Two of those elements include the nation's lead nuclear energy research facility, the Idaho National Laboratory, and a state ranking of 13th in wind power development potential with specific areas considered highly suitable for wind development projects.

Additionally, there is a proliferation of companies and university research focused on areas such as fuel cells, low-power batteries, electric car technologies, kinetic energy capture, biomass and new alternative fuels.

Inside the Directory

Inside the Power and Energy directory are companies, agencies, research institutions, distributors and cooperatives which are engaged in the research, refinement, conservation or production of energy resources that include electric power production including renewable resource research in hydro, geothermal, solar, wind, and nuclear technologies; fuel research; biomass technologies; energy monitoring and conservation technologies.

Companies & Agencies

A.C. Data Systems

A.C. Data focuses on surge suppression and power quality needs. In addition, A.C. Data develops remote sensor systems as well as a state-of-the-art test facility that simulates the lightning and surge environment for any industry.

806 W. Clearwater Loop #C

Post Falls, ID 83854

Phone: (208) 777-1166

Web site: acdatasystems.com

AMET Inc.

AMET provides automated welding systems and serves as a systems integrator for the aerospace, chemical, industrial, manufacturing, military, nuclear, oil and petrochemical industries.

35 N. 1 East,

Rexburg, ID, 83440

Phone: (208) 356-7274

Web site: ametinc.com

Architectural and Environmental Associates

Architectural and Environmental Associates provides green architecture, solar and indoor air quality services.

1700 Northwest Blvd.

Coeur d'Alene, ID 83814

Phone: (208) 765-9555

Web site: aeaassoc.com

Associated Coil

Associated Coil helps companies and organizations that use or service the National Electrical Manufacturers Association's motors to improve efficiency and reliability.

5954 Grandview Drive

Boise, ID 83709

Phone: (208) 322-6999

Web site: em2solutions.com

Aurora Power and Design

Aurora designs energy systems and generators that use solar, wind or water power. The company's services include design, sales, installation and maintenance.

3412 N. 36th St.

Boise, ID 83703

Phone: (208) 342-0454

Backwoods Solar Electric Systems

Backwoods Solar specializes in solar-generated electricity for remote homes where utility lines are not available or not practical to access.

1589 Rapid Lightning Creek Road

Sandpoint, ID 83864

Phone: (208) 263-4290

Web site: backwoodssolar.com

Balaton Power

Balaton Power is an electricity provider for Boise and the surrounding area.

1197 W. Main St.

Boise, ID 83702-5630

Phone: (208) 333-9447

Battelle

Battelle manages the Idaho National Laboratory.

2309 S.W. First Ave., #745

Portland, OR 97201

Phone: (503) 464-1017

Beacon Light Products

Beacon Light designs, develops and manufactures miniature electronic controls for lighting and other power applications. It developed a quick and reliable electronic lamp starter for small fluorescent applications.

723 W. Taylor Ave.

Meridian, ID 83642

Phone: (208) 888-5905

Berry Electric Inc. and Sun Spot Solar

Berry Electric and Sun Spot Solar specialize in the design, sales, installation and maintenance of alternative energy systems such as solar and wind-powered systems.

Rodeo Road

Challis, ID 83226

Phone: (208) 879-3273

Bitterroot Solar

Bitterroot Solar designs and sells solar panels, solar electric power systems, wind power generators and hydro electric generators, inverters, batteries, solar water pumping and diesel electric generators.

40 Twelve Mile Road

Salmon, ID 83701

Phone: (208) 756-8449

Web site: bitterrootsolar.com

Blue Ribbon Energy

Blue Ribbon is a company that specializes in wind power.

Web site: blueribbonenergy@gmail.com

Bradley Engineering Chtd.

Bradley Engineering is an electrical engineering firm that specializes in electrical design and energy conservation with hydro technology.

382 Walnut St.

Idaho Falls, ID 83401

Phone: (208) 523-2862

Bully Dog Technologies

Bully Dog is a leader in diesel engine after-market devices and sySutitems to enhance performance and fuel economy of diesel engines.

2854 W. 2200 South

Aberdeen, ID 83210

Phone: (208) 397-3200

Web site: bullydog.com

Clearwater Power Co.

Clearwater Power is a nonprofit electric cooperative that provides energy and services to its consumers. All revenues made over expenditures are returned to the consumer through capital credits.

4230 Hatwai Road

P.O. Box 997

Lewiston, ID 83501

Phone: (208) 743-1501

Web site: clearwaterpower.com

CH2M Hill

CH2M is a multinational firm providing engineering, construction, operations, communications, security, environmental and related services to public and private clients.

815 Park Blvd.

Boise, ID 83712

Phone: (208) 333-0615

Web site: ch2m.com

Computer Simulation & Analysis Inc.

Computer Simulation & Analysis is an Idaho engineering consulting company that specializes in nuclear safety, operational transient analysis, power plant simulation, computer software and development for engineering applications. It also provides general support to electric utilities in nuclear safety licensing issues.

855 N. Capital, Suite 1

P. O. Box 51596

Idaho Falls, ID 83405

Phone: (208) 529-1700

FAX: (208) 529-1723

Web site: csai.com

Co-op Energy LLC

Co-op Energy is a joint venture between Northern Lights Inc. and Co-op County Store. Co-Op Energy was created in 2000 to provide low-cost propane installation and service to customers in northern Idaho.

*125 Tibbets Lane
Ponderay, ID 83852
Phone: (208) 263-3338
Web site: co-openergy.org*

CSHQA Architects, Engineers, Planners

CSHQA Architects, Engineers, Planners provides a wide variety of engineering and architectural services. Its electrical engineering division deals with power and power generation systems.

*C.W. Moore Plaza
250 S. 5th St.
Boise, ID 83702
Phone: (208) 343-4635
Web site: cshqa.com*

CTA Architects Engineers

CTA Architects Engineers provides a wide variety of services. Its electrical engineering department provides power engineering among many other services.

*1185 Grove St.
Boise, ID 83702
Phone: (208) 336-4900
Web site: ctagroup.com*

Current Technologies

Current Technologies provides nondestructive electrical testing on power distribution systems.

*206 S. Main St.
Placerville, ID 83666
Phone: (208) 392-9570*

David Evans and Associates Inc.

David Evans and Associates provide energy consultation services for wind, hydro and other renewable energy sources.

*6148 N. Discovery Way No. 120-111
Boise, ID 83713
Phone: (208) 672-7249
Web site: deainc.com*

DC Engineering

DC Engineering is an electrical engineering firm in Meridian.

*440 E. Corporate Drive, Suite #103
Meridian, ID 83642
Phone: (208) 288-2181*

DFX Solutions Inc.

DFX is a company that specializes in solar power.

1794 S. Lakemoor Way

Eagle, ID 83616

(208) 938-5339

Diversified Control Systems LLC

Diversified Control Systems operates as a fabrication, engineering and systems integration company. Its electrical engineering services includes control, automation systems, design and implementation, low and medium voltage systems, facility designs, process visualization, emergency power systems and electrical engineering design.

1618 S. Columbus St.

Boise, ID 83705

Phone: (208) 342-6424

Web site: divcontrol.com

Dynamic Fabricators LLC

Dynamic Fabricators manufactures fiberglass and wood cooling tower components for the power and process industries.

22515 W. Highway 53

Rathdrum, ID 83858

Phone: (208) 773-1787

Web site: dynafab.net

East End Mutual Electric

East End Mutual Electric is a rural electric cooperative that provides electricity to Rupert, Idaho, and the surrounding area.

528 E. St

Rupert, ID 83350

Phone: (208) 436-9357

ECO Research

ECO Research designs and manufactures the ECO 100 Sprinkler Optimizer--a water savings device that connects to an existing sprinkler timer and automatically adjusts water output as needed.

5465 E. Terra Linda Way

Nampa, ID 83687

Phone: (208) 426-6625

Web site: ecoresearch.com

Electric Authority Inc.

Electric Authority is a Nampa company that specializes in electrical contracting and alternative energy.

Phone: (208) 468-2399

Web site: electricauthority.biz

Electrical Engineering Co.

Electrical Engineering designs electrical systems for commercial buildings and provides energy conscious expertise for its clients to ensure that energy is most efficiently utilized.

545 N. Benjamin Lane, Suite 175

Boise, ID 83704

Phone: (208) 378-4450

Web site: e2co.com

Electro Test

Electro Test provides electrical power systems and maintenance testing.

Rathdrum, ID 83858

Phone: (208) 687-4347

Enel North America

Enel is an owner and operator of renewable energy plants. With offices in the United States and Canada, Enel is active in a number of clean power sources including hydro, wind and biomass energies as it pursues potential geothermal opportunities. Many of the projects are in Idaho.

One Tech Drive, Suite 220

Andover, MA 01810

Phone: (978) 681-1900

Web site: enel.it/northAmerica.com

Energy Products of Idaho

Energy Products has produced over 81 systems which utilize more than 200 different varieties of solid and liquid fuels in a multitude of industrial markets. In addition to pioneering biomass fluidized bed technology, Energy Products continues in its efforts to convert waste products into usable energy with combustion and gasification systems.

4006 Industrial Ave

Coeur d'Alene, ID 83815-8928

Phone: (208) 765-1611

Fax: (208) 765-0503

Web site: energyproducts.com

Energy Unlimited Inc.

Energy Unlimited runs different wind farms. It sets up wind turbines in permitted areas.

6600 Roe St.

Boise, ID 83703

Phone: (208) 853-6291

Engineering Consultants Inc.

Engineering Consultants specializes in air conditioning, electrical, heating, plumbing and telecommunications data.

*600 N. Curtis Road
Boise, ID 83706
Phone: (208) 376-9820*

Environ

Environ is a company that focuses on biowaste gasification.

*10400 Overland
Boise, ID 83709*

*712 Main Ave. South
Twin Falls 83301
(208) 322-0777*

Environmental Energy Services Inc.

Founded in 2001, Environmental Energy Services is an environmental resources company focused on energy and solid waste management. The company is pursuing oil and natural gas wells in Oklahoma with expansion efforts taking place in Arkansas, Louisiana and Alaska. Revenue from these projects will allow the company to expand its efforts to clean up coal areas without relying on tax credits to make the operations profitable.

*3350 Americana Terrace, Suite 200
Boise, ID 83706
Phone: (208) 342-0983
Web site: eesvinc.com*

Exergy Development Group of Idaho LLC

The Exergy Development Group is a wind power development consulting firm.

*99 E. State St., Suite 200
Eagle, ID 83616
Phone: (406) 442-5522*

Fall River Rural Electric Coops. Inc.

River Rural is a member-owned cooperative serving customers in Idaho, Montana and Wyoming.

*1150 N. 3400 East
Ashton, ID 83420
Phone: (208) 652-4743
Web site: frrec.com*

Farmers Electric Coops.

Farmers Electric is a rural electric cooperative that provides electricity to Heyburn, Idaho, and the surrounding area.

*P.O. Box 85
Heyburn, ID 83336
Phone: (208) 436-6384*

Farren Engineering Inc.

Farren Engineering is an electrical engineering firm that provides electrical drawings and specifications along with other construction contract documents for commercial, industrial and residential construction projects.

*600 W. Curling Drive
Boise, ID 83702
Phone: (208) 429-1309
Web site: farrenengineering.com*

Four Moore Inc.

Four Moore specializes in medium-scale wind power development.

*P.O. Box 9868
Moscow, ID 83843
Phone: (208) 892-3524*

GeoEngineers Inc.

GeoEngineers provides earth science, environmental and technology consulting services with a focus in transportation, energy, development, government services and water and natural resources.

*802 W. Bannock St., Suite 700
Boise, ID 83702
Phone: (208) 433-8098
Web site: geoengineers.com*

Global Technologies Inc.

Global Technologies is involved with the research, development and testing of fuel systems for the Marine Corps. Global Technologies uses ion-exchange filters and the instruments that detect enriched uranium.

*2265 E. 25th St.
Idaho Falls, ID 83404
Phone: (208) 523-6763
Web site: gtiusa.net*

HDR Engineering Inc.

HDR is an architectural, engineering and consulting firm that excels at managing complex projects and has over 100 locations worldwide.

*412 E. Parkcenter Blvd.
Suite 100
Boise, ID 83706-6659
Phone: (208) 387-7000
Web site: hdrinc.com*

Hiddleston Drilling and Pump

Hiddleston is a water well service provider that has capabilities that include mineral exploration, well repair, rehabilitation, abandonment, down hole videos, cathodic protection installations along natural gas pipelines and geothermal wells in excess of 2,000 feet.

*5932 W. Victory Road
Boise, ID 83709
Phone: (208) 362-2900
Web site: hiddlestondrilling.com*

Horseshoe Bend Hydroelectric Co.

The Horseshoe Bend Hydroelectric Co. in Horseshoe Bend, Idaho, is owned and operated by Innergex USA. The electricity produced is bought by Idaho Power.

*Innergex USA Inc.
111, rue St-Charles Ouest
Tour Est, bureau 1255
Longueuil (Quebec) J4K 5G4
Phone: (450) 928-2550
Web site: innergex.com*

Idaho County Light & Power Cooperative Association Inc.

Idaho County Light & Power is a consumer-owned cooperative providing electrical distribution service to north central Idaho.

*Highway 13
P.O. Box 300
Grangeville, ID 83530-0300
Phone: (208) 983-1610
Web site: iclp.coop*

Idaho County Solar

Idaho County Solar specializes in solar, wind and hydro energy systems. Its services include design, sales, installation and maintenance.

*P.O. Box 7
Grangeville, ID 83530
Phone: (208) 983-0820*

Idaho Energy Division

The Idaho Energy Division is part of the Idaho Department of Water Resources. It promotes and supports communities' participation in cost-effective energy conservation programs and use of renewable energy resources by providing training, technical assistance, information and financial support to consumers, producers and policy makers.

*322 E. Front St.
P.O. Box 83720
Boise, ID 83720-0098
Phone: (208) 287-4800
Web site: idwr.idaho.gov/energy*

Idaho Engineering and Geology

*1846 E. Spring Meadow Lane
Boise, ID 83706
Phone: (208) 381-0108*

Idaho Falls Power

Idaho Falls Power is a municipal electric utility serving the corporate city limits of Idaho Falls.

*140 S. Capital
P.O. Box 50220
Idaho Falls, ID 83405
Phone: (208) 529-1430
Web site: ifpower.org*

Idaho Farm Bureau

Idaho Farm Bureau is a cooperative that assists with ethanol legislation.

*P.O. Box 167
500 W. Washington
Boise, ID 83701
(208) 342-2688*

Integrative Energy LLC

Integrative Energy promotes ethanol production by assisting new ethanol facilities in the startup process.

*1611 Miller Ave.
Burley, ID 83318
Phone: (208) 219-9164
Web site: integrative-energy.com*

Intermountain Gas Co.

Intermountain Gas is a natural gas provider in Idaho.

*555 S. Cole Road
Boise, ID 83709
Web site: intgas.com*

Intrepid Technology & Resources Inc.

Intrepid Technology & Resources focuses on developing, constructing and operating a portfolio of projects in the renewable energy sector with a special emphasis on production of biofuels

*501 W. Broadway, Suite 200
Idaho Falls, ID 83402
Phone: (208) 529-5337
Web site: intrepid21.com*

Invenergy LLC

Invenergy is a developer, owner and operator of large-scale electricity generation assets in the North American and European energy markets. The company has significant expertise in the development, financing, construction, operations and long-term management of power generation projects serving a wide range of clients including utilities, load serving entities and industrials. Invenergy is currently operating the Wolverine Creek Energy Center in Idaho Falls.

One South Wacker Drive Suite 2020

Chicago, IL 60606

Phone: (312) 224-1400

Web site: invenergyllc.com

J. R. Simplot Co.

J.R. Simplot has a federally-licensed qualifying facility for hydropower generation at Magic Reservoir in Shoshone. It also makes electricity as a by-product of its sulfuric acid plant operation at the Don Plant near Pocatello.

999 Main St., Suite 1300

Boise, ID 83702

Phone: (208) 336-2110

Web site: simplot.com

J-U-B Engineers Inc.

J-U-B Engineers is a multidisciplinary consulting firm that provides a wide range of services such as civil engineering, structural engineering, transportation engineering, city planning, regional planning, surveying and environmental services.

250 Beechwood Drive, Suite 201

Boise, ID 83709

Phone: (208) 376-7330

Web site: jub.com

kNew Corp.

kNew builds Smart Plugs, an improved spark plug that increases engine power, gives off fewer emissions and provides more fuel efficiency.

1926 Industrial Drive

Sandpoint, ID 83864

Phone: (208) 265-2723

Web site: ultralightflyer.com

Kootenai Electric Cooperative Inc.

Kootenai Electric serves approximately 17,000 members over 1,216 miles of electric line in northern Idaho and eastern Washington. Kootenai Electric is a private, nonprofit electric utility owned by the members it serves.

251 W. Dakota Ave.

P.O. Box 278

Hayden, ID 83835-0278

Phone: (208) 765-1200

Web site: kec.com

Koyle Hydro Inc.

Koyle Hydro is a non-utility hydroelectric power provider.

833 Nebraska St.

Gooding, ID 83330

Phone: (208) 934-4243

Leisure Electric

Leisure Electric specializes in solar, wind and hydro energy systems. Its services include design, sales, installation and maintenance of the systems.

Cedar Creek Landing

Bayview, ID 83803

Phone: (208) 222-2212

Lost River Electric Cooperative Inc.

Lost River Electric is an electric utility serving Mackay, Idaho, and the surrounding areas.

305 Pine St.

P.O. Box 420

Mackay, ID 83251-0402

Phone: (208) 588-3311

Magic Reservoir Hydroelectric Inc.

Magic Reservoir Hydroelectric is a non-utility hydroelectric power producer.

Richfield, ID 83349

Phone: (208) 487-2442

Maxim Technologies

Maxim Technologies, a division of Tetra Tech, is a multidisciplinary engineering and environmental consulting firm.

3380 Americana Terrace, Suite 201

Boise, ID 83706

Phone: (208) 389-1030

Web site: maximusa.com/index.htm

Millennium Science and Engineering

Millennium is a premier international consulting science and engineering firm offering professional services in the environmental field worldwide.

1605 N. 13th St.

Boise, ID 83702

Phone: (208) 345-8292

Web site: mse-environmental.com

Mulder Consulting Engineers

Mulder Consulting is an electrical engineering consulting firm that deals mostly with commercial buildings in collaboration with Idaho Power.

*4094 W. Chinden Blvd.
Garden City, ID 83714
Phone: (208) 336-0245*

Natural Resources Co.

Natural Resources designs and installs renewable energy systems including solar electric power, wind and hydro energy systems. Natural Resources provides services primarily for residential buildings.

*P.O. Box 91
Victor, ID 83455
Phone: (208) 787-2495*

North American Hydro

North American Hydro owns and operates hydroelectric power plants throughout the United States.

*2601 E. Hubbard Road
Kuna, ID 83634
Phone: (208) 288-1057
Web site: nahydro.com*

Northern Lights Inc.

Northern Lights telecommunications provides network services to the wholesale carrier market and integrated voice and data communications solutions to businesses.

*421 Chevy St.
P.O. Box 269
Sagle, ID 83860
Phone: (208) 263-5141
Web site: norlight.com*

Northwest Energy Storage

Northwest Energy Storage provides renewable energy products and system design assistance based upon 18 years of design and application experience.

*6778 El Paso St.
Bonners Ferry, ID 83805
Phone: (208) 267-6409*

Northwest Energy Efficiency Alliance

Northwest Energy is Boise based energy company.

*2158 Pebblecreek Lane
Boise, ID 83706
Phone: (208) 343-0988
Web site: www.nwalliance.org*

North Wind Inc.

North Wind offers capabilities in the areas of environmental restoration, engineering, program management, geosciences, waste management, natural and cultural resources, remediation technologies and civil construction services.

545 Shoup Ave., Suite 200

P.O. Box 51174

Idaho Falls, ID 83405

Phone: (208) 557-7889

Web site: nwindenv.com

O'Rouark Engineering Inc.

O'Rouark Engineering is an electrical engineering consulting firm. It primarily consults its customers concerning power systems and building electrical design.

1710 Warm Springs Ave.

Boise, ID 83712

Phone: (208) 363-0986

Palouse Wind and Water

Palouse Wind and Water sells small wind systems and is a dealer of Jacobs turbines.

1101 Rothwell Road

Viola, ID 83872

Phone: (208) 883-3676

Peak Electric

Peak Electric is an electrical contractor that works with both residential and commercial clients.

8249 Sage Run Lane

Middleton, ID 83644

Phone: (208) 585-9424

Power Engineers

Power Engineers is a consulting engineering firm that has transmission and distribution, industrial and telecommunications divisions.

3940 Glenbrook Drive

P.O. Box 1066

Hailey, ID 83333

Phone: (208) 788-3456

Web site: powereng.com

Premier Technology Inc.

Premier is a leading manufacturer and industrial contractor in the Pacific Northwest. Premier has experienced steady expansion over most of the United States, Canada and many international markets. Pocatello, Idaho, is home to the corporate headquarters, which includes a 50,000 square foot manufacturing facility. Premier has provided products and services for a wide range of clients and industries including the Department of Energy, the Department of Defense, the nuclear sector, isolation barrier producers and shielding equipment makers.

170 E. Siphon Road

Pocatello, ID 83202

Phone: (208) 238-3036

Web site: premiertechnology.cc

Renaissance Engineering and Design

Renaissance Engineering and Design provides attention to specific categories including electrical generation, cogeneration, interconnection involving reciprocating diesel and gas engine sets, gas turbines, micro turbines, fuel cells, switchgear, HVAC boilers and chillers, renewable energy through solar, wind, anaerobic biomass digestion and biomass gasification and various other energy products and services.

4630 N. Maple Grove Road

Boise, ID 83704

Phone: (208) 321-9132

Web site: clever-ideas.com

Renewable Energy Resources

Renewable Energy Resources specializes in cost effective, reliable and environmentally sound geothermal, solar and wind energy generating systems.

1240 N.W. Beaman St.

Mountain Home, ID 83647

Phone: (208) 587-1400

Web site: renewableworks.com

Raft River Rural Electric Cooperative Inc.

Raft River Rural is an electric utility serving Malta, Idaho, and the surrounding areas.

150 N. Main

Malta, ID 83342

Phone: (208) 645-2211

Riverside Electric Co.

Riverside Electric is an electric cooperative that provides electrical services to Rupert, Idaho, and the surrounding area.

P.O. Box 12

Rupert, ID 83350

Phone: (208) 436-3855

Rupert Electric Department

Rupert Electric Department is an electric utility serving Rupert, Idaho, and the surrounding areas.

*623 East St.
P.O. Box 426
Rupert, ID 83350
Phone: (208) 436-9600*

SAIC

SAIC is an international company based in San Diego, Calif., with smaller offices all over the world including three in Idaho. SAIC assesses physical and cyber risks to power plants, energy pipelines, water utilities and the U.S. Department of Energy's nuclear facilities. The U.S. Department of Energy also uses SAIC's research to assess hydrogen programs that could establish a hydrogen infrastructure and help industry commercialize fuel-cell vehicles.

*405 S. 8th St., Suite 301
Boise, ID 83702*

*P.O. Box 735
Bayview, ID 83803*

*950 Energy Drive
Idaho Falls, ID 83401
Phone: (858) 826-6000
Web site: saic.com*

Salmon River Electric Cooperative Inc.

Salmon River Electric is a nonprofit, rural electric cooperative delivering retail electric service to approximately 2,500 electric and 2,500 propane accounts in south central Idaho.

*1130 Main St.
P.O. Box 384
Challis, ID 83226
Phone: (208) 879-2283
Web site: srec.org*

Self-Reliant Living LLC

Self-Reliant Living is a contracting company that sells and installs green systems in homes. Its products include solar panels, Thermashield, green housing products and heating systems.

*336 N. 1810 East
St. Anthony, ID 83445
Phone: (208) 624.3135
Web site: beselfreliant.com*

Siemens Building Technologies Inc.

Siemens specializes in Idaho community energy efficiency projects.

9632 W. Emerald St.. Suite E

Boise, ID 83704

Phone: (208) 658-9107

Web site: sbt.siemens.com

Smarter Process Inc.

Smarter Process is an engineering, consulting and design firm specializing in industrial electrical and process control, motor controllers, instrumentation, automation, computerization and custom control panels.

6067 Corporal Lane

Boise, ID 83704

Phone: (208) 323-8999

Web site: smarterprocess.com

Snake River Power Association Inc.

Snake River Power is an Idaho cooperative that deals with problems of increasing wholesale costs and diminishing supply in southern Idaho. Currently, Snake River Power focuses on local power supply issues and interacting with other regional organizations.

1710 Overland Ave.

P.O. Box 608

Burley, ID 83318

Phone: (208) 678-3027

South Side Electric Lines

South Side is an electric cooperative that provides electrical services to south central Idaho.

P.O. Box 127

Declo, ID 83323

Phone: (208) 654-2313

Strata Inc.

Strata provides geotechnical engineering and materials testing for industrial, commercial, governmental, residential and transportation projects throughout the northwestern United States.

280 W. Prairie Ave.

Coeur d'Alene, ID 83815

Phone: (208) 772-2428

Web site: stratageotech.com

Sun Valley Solar

Sun Valley Solar designs renewable energy systems for homes and businesses.

360 S. Hulen Way

P.O. Box 2313

Ketchum, ID 83340

(208) 725-4020

Web site: svsolar.com

Switchback Energy Systems

Switchback Energy Systems specializes in providing alternative energy such as wind, solar and many other types of low-cost energy sources.

P.O. Box 636

Iona, ID 83427

Phone: (208) 520-0614

Web site: switchbackenergy.com

Sunrise Engineering Inc.

Sunrise Engineering is an engineering and consulting firm with in-depth knowledge of energy, water and land resources.

3557 E. Overland Road

Meridian, ID 83642

Phone: (208) 884-0306

Web site: sunrise-eng.com

Taylor Engineers Inc.

Taylor Engineers is an engineering firm that specializes in electrical, mechanical and plumbing design.

7213 W. Franklin Road

Boise, ID 83709

Phone: (208) 377-0033

Terracon Consultants Inc.

Terracon is an employee-owned consulting firm of engineers and scientists providing geotechnical, environmental, construction materials and related services from more than 70 offices nationwide.

11849 W. Executive Drive, Suite G

Boise, ID 83713

Phone (208) 323-9520

Web site: terracon.com

Tetra Tech Inc.

Tetra Tech is a leading provider of specialized management consulting and technical services in the areas of resource management, infrastructure and communications.

6148 N. Discovery Way

Boise, ID 83713

Phone: (208) 343-7478

Web site: tetrattech.com

Thomas, Dean and Hoskins Inc.

Thomas, Dean and Hoskins is a consulting engineering firm offering a full range of engineering services throughout Montana, Washington, Idaho and Wyoming.

2517 17th St., Suite B

Lewiston, ID 83501

Phone: (208) 746-0938

Web site: tdandh.com

Transtector

Transtector designs a full range of AC, DC and data/voice devices mostly focused on data and surge protection products.

10701 Airport Drive

Hayden Lake, ID 83835

Phone: (208) 772-8515

Web site: transtector.com

Trindera Engineering Inc.

Trindera Engineering is an electrical engineering consulting firm providing electrical and control system engineering and consulting services to municipal, industrial and commercial clients throughout the Inland Northwest.

1859 N. Lakewood Drive, Suite 103

Coeur d'Alene, ID 83814

Phone: (208) 676-8001

Web site: trindera.com

United Electric Co-op Inc.

United Electric is an electrical cooperative providing electricity to both Minidoka and Cassia counties.

1330 21st St.

Heyburn, ID 83336

Phone: (208) 679-2222

Web site: unitedelectric.org

URS Corp.

URS is one of the largest engineering design firms worldwide and a leading U.S. government contractor. The business focuses primarily on providing professional and technical services in the engineering, construction and defense markets.

1750 W. Front St.

Boise, ID 83702

Phone: (208) 344-6140

Web site: urscorp.com

U.S. Geothermal

U.S. Geothermal is a renewable energy development company that currently owns and leases approximately 8.2 square miles of land located at Raft River, Idaho. This property contains a proven geothermal reservoir that is verified by GeothermEx to be capable of up to 110 megawatts. The Department of Energy estimated the total energy output of the Raft River as high as 200 megawatts net.

1509 Tyrell Lane, Suite B

Boise, ID 83706

Phone: (208) 424-1027

Web site: usgeothermal.com

Washington Group International

Washington Group delivers integrated engineering, construction and management solutions for businesses and governments worldwide.

720 Park Blvd.

Boise, ID 83712

Phone: (208) 386-5000

Web site: wgint.com

Wind Advantage

Wind Advantage specializes in small and large scale wind power development.

605 S. 600 West

Burley, ID 83318

Phone: (208) 678-8469

Windland Inc.

Windland is a developer, owner and operator of wind power projects. It has operated one of the first wind farms in the United States located in one of the toughest wind regimes in North America for over 20 years.

7669 W. Riverside Drive, Suite 102

Boise, ID 83714

Phone: (208) 377-7777

Web site: windland.com

Windpower Unlimited LLC

Windpower provides many types of renewable energy sources such as wind and solar power, storage batteries, inverters and chargers, and water pumps.

2037 G. E. 3500 North

Filer, ID 83328

Phone: (208) 735-9463

Web site: windpowerunlimited.com

Yanke Energy Inc.

Yanke Energy is a full service engineer, constructor, owner and operator of cogeneration, electric generation and energy application systems. It turns waste into power through the resources of renewable energy.

P.O. Box 5405

Boise, ID 83705

Phone: (208) 338-2200

Web site: yanke-energy.com

Yanke Machine Shop Inc.

Yanke fabrication and field crews have fabricated and delivered many components to hydro projects and energy related projects.

4414 S. Gekeler Lane

P.O. Box 5405

Boise, ID 83716

Phone: (208) 342-8901

Web site: yankemachine.com

University and Research Institutions

Boise State University - College of Engineering

- Associate Professor of Electrical and Computer Engineering William Knowlton's most current research is on semiconductors and power generators.
- Associate Professor of Electrical Engineering Said Ahmed-Zaid's research interests are in the areas of power system operation and control, electric machines and drives, power electronic circuits and wind energy applications. He is currently interested in the analysis and development of new generators for wind energy applications. In particular, he is investigating the operation of self-excited series-connected induction generators for stand-alone applications.

Another area of his research is the development of a DSP-based platform for the rapid prototyping of advanced algorithms for high-performance control of electric machines.

1910 University Drive

Boise, ID 83725

Phone: (208) 426-5705 or (208) 426-4073

Web site: coen.boisestate.edu

Idaho National Laboratory Center for Advanced Energy Studies

2525 Fremont Ave.

Idaho Falls, ID 83415-3760

Phone: (208) 526-9154

Web site: caesenergy.org

Idaho State University College of Engineering

833 S. 8th Ave.

Campus Box 8060

Pocatello, ID 83209

Phone: (208) 282-2902

Web site: isu.edu/engineer

University of Idaho Microelectronics Research and Communications Institute

Through its three centers - the Center for Intelligent Systems Research, the Center for Secure and Dependable Systems and the Center for Microelectronics and Signal Processing - the institute develops technologies in microelectronics, power electronics, microwave ferrite research, battery development, intelligent control, computer security, communications systems and neural networks.

P.O. Box 441024

Moscow, ID 83844-3327

Phone: (208) 885-6045

Web site: mrc.uidaho.edu

Distributors

Airtrack Electronics

Airtrack Electronics provides electrical service and sales.

11035 W. Ramrod Drive

Boise, ID 83713

Phone: (208) 375-4004

Applied Industrial Technologies

Applied Industrial Technologies is one of North America's leading independent distributors of bearings, power transmission components, fluid power components and systems, rubber products, linear components and general maintenance and specialty items.

1314 Shilo Drive

Nampa, ID 83687-3064

Phone: (208) 461-2423

Web site: web.applied.com

Bolen's Control House

Bolen's Control House is a distributor of SymCom products that monitor the power supply and protect electric motors before damage occurs to the windings of a compressor, pump or other motor that can be damaged by a fault.

7908 W. Woodlark St.

Boise, ID 83709

Phone: (208) 362-5280

Columbia Electric Supply

Columbia Electric Supply is an electrical distributor for industrial, commercial and residential customers. It is a part of Consolidated Electrical Distributors with over 500 locations nationwide.

200 N. Maple Grove Road

Boise, ID 83704

Phone: (208) 322-1231

Web site: cesboise.com

Control Solutions and Design Inc.

Control Solutions and Design is a local controls wholesaler that also provides automation design.

330 N. Ancestor Place

Boise, ID 83704

Phone: (208) 375-4422

Web site: csdidaho.com

Eaton Corp. Cutler-Hammer Sales

Eaton Corp. Cutler-Hammer Sales sells wholesale electrical equipment and supplies to the electrical, commercial and industrial markets.

6138 W. Emerald St., # A

Boise, ID 83704

Phone: (208) 323-2802

Electric Controls and Supply LLC

Electric Controls and Supply sells electrical equipment and supplies to the electrical construction, commercial and industrial markets.

112 W. 32nd St.

Garden City, ID 83714

Phone: (208) 344-0803

Electrical Wholesale and Supply Co. Inc.

Electrical Wholesale and Supply supplies electrical products to the electrical construction, commercial and industrial markets.

537 E. Schiller Lane

Meridian, ID 83642

Phone: (208) 888-9800

Interstate Electric Supply

Interstate Electric Supply is an electric motor dealer.

415 N. Phillippi St.

Boise, ID 83706

Phone: (208) 375-6880

Johnson Controls

Johnson Controls provides controls systems and regulator sales.

30 E. Franklin Road

Meridian, ID 83642

Phone: (208) 846-9011

McGuire Bearing Co.

McGuire Bearing sells bearings, pulleys and sheaves, belts, sprockets, chain, seals, o-rings and quad rings, bronze, electric motors, gears, speed reducers, couplings, conveyor components and accessories.

1053 W. Amity Road

Boise, ID 83705

Phone: (208) 342-2281

Web site: mcguirebearing.com

MSI Technologies

MSI Technologies is a provider of hardware, software and services. It has technical skills and partners with technology leaders such as IBM, VMware, Cisco Systems, McDATA, Microsoft, Vanguard, Stonesoft, iTera, F5 Networks, Symantec, BMC and Kofax. The Boise location is a satellite office for the main headquarters in Omaha, Neb.

*4700 N. Cloverdale Road
Boise, ID 83713
Phone: (208) 939-5884
Web site: msitechnologies.com*

Pan Electric Automation

Pan Electric Automation is an electric motor provider.

*2800 W. Idaho Blvd.
Emmett, ID 83617
Phone: (208) 398-8800*

Platt Electric

Platt Electric is a value-added service company that supplies a broad range of products and services to the electrical construction, commercial, industrials, utility and data/signal/voice markets.

*5603 Bethel
Boise, ID, 83706-1417
Phone: (208) 376-5643
Web site: platt.com*

Priest Electric

Priest Electric offers service and sales of electrical motors and pumps, rotating apparatus and controls.

*412 W. Simplot Blvd.
Caldwell, ID 83605-6732
Phone: 208-459-6351
Web site: priestelectric.com*

Solar Electric Hybrid LLC

*8003 E. Lincoln Road
Idaho Falls, ID 83401
Phone: (208)-523-5591*

Solar Valley Alternative Energy

*P.O. Box 2537
Hailey, ID 83333
Phone: (208)-727-7467*

Energy Cooperatives

Bonneville Power Administration

Bonneville Power is a federal agency headquartered in Portland, Ore., that markets wholesale electricity and transmission to the Pacific Northwest's public and private utilities as well as to some large industries.

905 N.E. 11th Ave.

Portland, OR 97232

Phone: (800) 282-3713

Web site: bpa.gov/corporate

Energy Committee of the Association of Idaho Cities

As outgrowth of a commission organized in the early 1960s to protect Idaho cities from anti-municipal electric utility legislation, the Energy Committee advises the executive director on energy issues.

3314 Grace St.

Boise, ID 83703

IDACORP Inc.

IDACORP is composed of four non-regulated companies along with the regulated utility Idaho Power Co. This family of businesses is involved in emerging new energy technologies, independent power production, internet services and telecommunications and affordable housing.

1221 W. Idaho St.

Boise, ID 83702-5627

Phone: (208) 388-2200

Web site: idacorpinc.com

- **Idaho Power Co.** is involved in the generation, purchase, transmission, distribution and sale of electric energy in a 20,000-square-mile area in southern Idaho and eastern Oregon with an estimated population of 883,000.

1221 W. Idaho St.

P.O. Box 70

Boise, ID 83707

Phone: (208) 388-2200

Web site: idahopower.com

- **IdaTech LLC** is a leader in the development of fuel processors and integrated proton exchange membrane fuel cell systems.

63065 N.E. 18th St.

Bend, OR 97701

Phone: (541) 383-3390

Web site: idatech.com

- **Ida-West Energy Co.** is a subsidiary of IDACORP and an affiliate of the Idaho Power Co. Ida-West operates and has an ownership interest in nine qualifying facilities in Idaho and California.

P.O. Box 7867

Boise, ID 83707-1867

Phone: (208) 395-8930

Idaho Energy Resource Authority

Formed in 2005 by the state of Idaho, the Idaho Energy Resource Authority's mission is to diversify and expand the state's economy through improvements in electric generation and transmission infrastructure to allow the development or expansion of electric facilities in Idaho or the import of low-cost energy from other parts of the region. The authority can participate in planning, financing, constructing, developing and acquiring electric generation and transmission facilities and their supporting infrastructure. House Bill 106 provided the authority with bonding authority and other powers to promote transmission, generation and renewable energy development in the state and the region.

1015 W. Hays St.

Boise, ID 83702

Phone: (208) 344-3873

Web site: iera.info

Idaho Cooperative Utilities Association

The association represents 20 of the 26 rural electric utilities in Idaho. Its primary focus is to cost effectively act on issues which are before the state of Idaho or other agencies which will impact the viability of the utilities or their ratepayers.

1330 21st St.

Heyburn, ID 83336

Phone: (208) 679-2222

Fax: (208) 679-3333

E-mail: UEC@UNITEDELECTRIC

Web site: icua.coop

Northwest Energy Efficiency Alliance

The Northwest Energy Efficiency Alliance is a non-profit corporation supported by Bonneville Power Administration, electric utilities, public benefits administrators, state governments, public interest groups and energy efficiency industry representatives. These entities work together to make affordable, energy-efficient products and services available in the marketplace.

529 S.W. Third Ave., Suite 600

Portland, OR 97204

Phone: (800) 411-0834 Web site: nwalliance.org

C. Norman Beckert

2158 Pebblecreek Lane

Boise, ID 83706

Phone: 208-343-0988

E-mail can be sent through the alliance Web site.

Northwest Power and Conservation Council

The council develops and maintains a regional power plan and a fish and wildlife program to balance the Northwest's environment and energy needs.

851 S.W. Sixth Ave., Suite 1100

Portland, OR 97204

Phone: (800) 452-5161

Web site: nwcouncil.org

Northwest Power Pool

Northwest Power serves as a forum in the electrical industry for reliability and operational adequacy issues in the Northwest. It promotes cooperation among its members in order to achieve reliable operation of the electrical power system, coordinate power system planning and assist in transmission planning in the Northwest Interconnected Area.

26 S.W. Salmon, Suite 400

Portland, OR 97204

Phone: (503) 464-2817

Web site: nwpp.org

Northwest Public Power Association

Northwest Public Power is an organization of over 150 public and people's utility districts, electric cooperatives, municipalities and crown corporations in the western United States and Canada. It provides training and education, public information, communication, federal legislative coordination, surveys, data and networking opportunities and products and services for the utility industry.

9817 N.E. 54th St.

Vancouver, WA 98662-6064

Phone: (360) 254-0109

Web site: nwppa.org

Pacific Northwest Generating Cooperative

Pacific Northwest is a power manager and aggregator for its 15 rural electric cooperative members and other electric utility clients in Oregon, Washington, Idaho, Montana, Utah, Nevada and Wyoming. It is licensed by the Federal Energy Regulatory Commission and manages power supply, transmission and resources.

711 N.E. Halsey

Portland, OR 97232-1268

Phone: (503) 288-1234

Web site: pngcpower.com

Power Resources Cooperative

This cooperative manages electric power generating and transmission resources for 14 rural electric distribution cooperatives located in Idaho, Oregon, Washington and Wyoming.

29160 Coffin Butte Road

Corvallis, OR 97330

Phone: (541) 745-3812

Snake River Power Association

The Snake River Power Association is an Idaho cooperative that deals with problems of increasing wholesale costs and diminishing supply facing southern Idaho preference customers of the Bureau of Reclamation. Currently it focuses on local power supply issues and interacting with other regional organizations.

P.O. Box 608

Burley, ID 83318

Phone: (208) 678-3027

Western Electric Power Institute

The Western Energy Institute is a regional association serving the electric and gas industries, both public and private, throughout the western United States and Canada. Its mission is to educate, develop skills and leadership and facilitate information exchange and networking among employees of member companies.

827 N.E. Oregon St.

Portland, OR 97232-2172

Phone: (503) 231-1994

Web site: westernenergy.org

Nanotechnology/New Materials

Nanotechnology/New Materials

Nanotechnology/New Materials is an emerging competency in Idaho and impacts practically every industry because it improves materials used in electronics, biology, construction and essentially every other field. Further, in the semiconductor field, most new products and research are being done at the nano level. Idaho has public and private sector resources that can capitalize in this area.

Inside the Directory

Inside the Nanotechnology/New Materials directory are companies, agencies and research institutions involved in the research, development, manufacturing and analysis of materials with features between 100 nanometers and a tenth of a nanometer in size. In this science, manipulating materials near the atomic/molecular level is critical to the material's purpose.

Companies & Agencies

American Semiconductor Inc.

American Semiconductor has developed a CMOS process technology that overcomes the barriers to sub-90nm scaling.

3100 S. Vista Ave., Suite 230

Boise, ID 83705

Phone: (208) 336-2773

E-mail: doughackler@americansemi.com

Web site: americansemi.com

AMI Semiconductor

AMI Semiconductor is researching and developing nano-scale structures for improved devices and consumer products.

2300 Buckskin Road

Pocatello, ID 83201

Phone: (208) 233-4690

E-mail: tamera_drake@amis.com

Web site: amis.com

Atlas Mining Co.

Atlas Mining processes halloysite clay, which contains naturally occurring halloysite nano-tubes used for developing advanced micro-structures in electronics, semiconductors, consumer products, fuel cells, transportation, energy and biotechnology.

P.O. Box 968

Osburn, ID 83849

Phone: (208) 556-1181

E-mail: admin@atlasmining.com

Web site: atlasmining.com

Comtech AHA

Since 1988, Comtech has been a semiconductor company that has developed and distributed integrated circuits. Currently, Comtech develops, markets and licenses data coding technologies such as Reed-Solomon, turbo product codes, low-density parity check codes and lossless data compression for the communications, networking, and data storage markets.

1126 Alturas Drive

Moscow, ID 83843

Phone: (208) 892-5600

Web site: aha.com

Cypress

Cypress manufactures a broad selection of wired and wireless USB devices, CMOS image sensors, timing solutions, network search engines, specialty memories, high-bandwidth synchronous and micro power memory products, optical solutions and reconfigurable mixed-signal arrays. Compass Cooperation is the Cypress sales and manufacturing facility in Idaho.

*372 S. Eagle Road, Suite 321
Eagle, ID 83616
Phone: (208) 286-9862
E-mail: jwood@compassid.com
Web site: cypress.com*

Hewlett-Packard Co.

Hewlett-Packard is currently researching and patenting microscopic platinum nano-wires to create ultra-tiny circuits.

*11311 Chinden Blvd.
Boise, ID 83714
Phone: (208) 396-6000
Web site: hp.com*

Idaho Space Materials

Idaho Space will soon begin production of single-walled carbon nanotubes for NASA and other nanotechnology research institutions and companies.

*12552 West Executive Drive
Boise, ID 83713
Web site: idahospace.com*

Micron Technology Inc.

Micron is focusing on nanotechnology to revolutionize the way semiconductors work and is greatly increasing the performance of memory chips and possibly implementing an entirely new logic system in integrated circuits.

*8000 S. Federal Way
P.O. Box 6
Boise, ID 83707-0006
Phone: (208) 368-3900
E-mail: salesmkt@micron.com
Web site: micron.com*

MOR Manufacturing Corp.

MOR Manufacturing specializes in through-hole and surface mount printed circuit board assemblies, cable and wire harness assemblies, coils and box builds in a highly responsive and responsible manner.

*5676 E Seltice Way,
Post Falls, ID 83854
Phone: (208) 667-8799
Web site: mormfg.com*

Nanoblok Inc.

Nanoblok utilizes the plasma quench process to produce ultra-fine titanium oxide powder. This powder is used in cosmetics, high quality paint, UV resistant shrink wrap and other consumer personal products such as shampoo and lotions.

Idaho Falls, ID

Nanosteel Corp.

Nanosteel produces steels with bulk nano-scale microstructures, leading to super hard steel. Nanosteel works in conjunction with the Idaho National Laboratory in Idaho Falls.

505 Lindsay Blvd.

Idaho Falls, ID 83402

Phone: (208) 552-5226

E-mail: info@nanosteelco.com

Web site: nanosteelco.com

NitroCision L.L.C.

Pioneering the design and manufacturing of the cleanest and most versatile cutting and cleaning equipment, NitroCision has combined the advantages of water jet technology with cryogenics to create a cryogenic jet—Nitro Jet.

151 North Ridge Ave., Suite 260

Idaho Falls, ID, 83402

Phone: (208) 552-2354

Web site: nitrocision.com

Positron Systems Inc.

Positron Systems utilizes nano-scale particles for preventive maintenance and nondestructive testing and analysis of the structural integrity of high-technology systems materials.

6151 N. Discovery Way

Boise, ID 83713

Phone: (208) 672-1923

E-mail: info@positronsystems.com

Web site: positronsystems.com

SCP Global Technologies

SCP continues to be an industry leader in the development of surface preparation technology and equipment used in the manufacture of semiconductors. Major device manufacturers worldwide use SCP Global's surface preparation equipment to etch, clean and strip films and surfaces of silicon wafers.

8455 Westpark St.

Boise, ID 83704

Phone: (208) 685-5000

Web site: scpglobal.com

Unitech Composites Inc.

Unitech specializes in the design and fabrication of composite products built to customer specifications. Unitech utilizes the latest technologies and methods to make strong, high quality lightweight structures.

P.O. Box 370

10413 Aero Drive

Hayden, ID 83835-0370

Phone: (208) 772-0533

Web site: Unitechcomp.com

Vartech Inc.

Vartech specializes in thermal spray technology.

2230 N. Yellowstone Highway

Idaho Falls, ID 83401

Phone: (208) 552-5655

E-mail: djv@ictr.com

Universities and Research Institutions

Boise State University

- Professor of Physics Dr. Charles Hanna's current research interests lie in quantum effects in low-dimensional and nano-scale electron and boson systems and the effects of interactions between electrons in semiconductor structures.

E-mail: channa@boisestate.edu

Web site: boisestate.edu/physics

- Associate Professor of Engineering Dr. William Knowlton's current research is in the SPM Systems and Nanofabrication Laboratory.

1910 University Drive

Boise, ID 83725

Phone: (208) 426-1000

E-mail: bknowlton@boisestate.edu

Web site: coen.boisestate.edu

Idaho National Laboratory

The Idaho National Laboratory is currently doing extensive nanotechnology research and development.

2351 N. Boulevard

P.O. Box 1625

Idaho Falls, ID 83415

Phone: (208) 526-0111

Web site: inl.gov

Idaho State University

The Idaho Accelerator Center is a unique research facility operated by Idaho State University in southeastern Idaho. The center has laboratories on the university campus, in the university's Business and Research Park and at the Pocatello Airport. It provides opportunities for scientists and engineers from the university, the private sector and the national laboratory to utilize specialized nuclear facilities. It serves as a principal investigating conduit for research and development in nuclear physics applications in materials science, biology and homeland and national security.

1500 Alvin Ricken Drive

Pocatello, ID 83201

Phone: (208) 282-5877

E-mail: legli@physics.isu.edu

Web site: iac.isu.edu

University of Idaho Research Teams

- Mechanics at the Nano-Scale.** The goal of this team is to study the mechanical and electromechanical properties of nano-springs. A nano-spring is a spring with physical dimensions on the scale of nanometers. Mechanics at the nano-scale are extremely important, yet the scientific community knows very little about the mechanics of individual nanostructures. Springs are ideally suited for exploring mechanics at the nano-scale because their behavior is known in the macroscopic scale. Furthermore, nano-springs have immense potential in nano-mechanical and nano-electromechanical devices. Professor David McIlroy at dmcilroy@uidaho.edu in the Physics Department leads this team. He has expertise in the area of nano-spring synthesis and was the first in the world to discover and develop a process for synthesizing nano-springs. Professor Chris Berven at berven@uidaho.edu is an expert in device physics and advanced nano-device fabrication, and Professor Eric Aston at Aston@uidaho.edu is an expert in mechanics at the nano-scale.
- Nano-Scale Magnetic Materials for Perpendicular Recording Media.** The goal of this team is to develop nano-scale magnetic materials suitable for the next generation of magnetic memory. With the increasing need for higher density memory devices, such as hard drives in computers, the current state of materials used for magnetic media are unsuitable due to physical limitations of the technology. The research performed by this team will find more suitable materials. This cluster includes Professor Wei Jiang Yeh at wjyeh@uidaho.edu in the Physics Department, who has expertise in nano-magnetics and thin film magnetics; Professor You Qiang at yqiang@uidaho.edu, who is an expert in magnetic nano-particle synthesis and is the designer of a state-of-the-art apparatus for synthesizing magnetic nano-particles; and Professor Yang-Ki Hong at ykhong@uidaho.edu, who has over 25 years of experience in the field of magnetic storage materials research and brings invaluable industrial experience to the team.
- Generation of Bio-based Nano-fibers for Use in Composite Materials and Baked Foods.** The goal of this team is to develop biopolymer nano-fibers suitable for construction/building materials and enhanced foods like crumbless cookies. In order to manage and maximize the use of trees in wood-based products and other agricultural bio-resources, the forest products and food industries are developing approaches for utilizing every part of the bio-resource - in the case of trees, from the bark to sawdust. The drawback of sawdust-based products like particle board is high weight and relatively low strength. Consequently, new types of wood-based materials are being developed that are lighter and stronger. The area of bio-based wood composites has been demonstrated to have immense potential. Professor Armando McDonald at armandm@uidaho.edu, in the Forest Products Department and an expert in forest products and in particular wood composites, will lead this cluster. Other members include Research Professor Kerry Huber at khuber@uidaho.edu, who has expertise in food science and polysaccharide chemistry; Professor Eric Aston at Aston@uidaho.edu, who is an expert in mechanics at the nano-scale and polymers; and Professor David McIlroy at dmcilroy@uidaho.edu, who has expertise in surface physics and materials characterization.

- **Semiconductor Nano-Wire Sensors for Biological Detection.** Medical technology and national security have a natural link - biological detection of extremely low concentrations of biomaterials. Because of the large surface-to-volume ratio of nano-scale materials, they are ideally suited for use in highly sensitive biosensors. Nano-wires are particularly attractive because they are only nanometers in diameter but microns in length. Their long length greatly simplifies the process of making electrical contacts. The goal of this cluster is to use semiconducting nano-wires to construct, test and develop highly sensitive biosensors. The team consists of Professor Chris Berven at berven@uidaho.edu of the Physics Department, who will head the group and has a background in nano-electronics and nano-devices; Professor David McIlroy at mcmilroy@uidaho.edu, who will provide the team with different types of semiconducting nano-wires; Professor Pam Shapiro at Shapiro@uidaho.edu, who will develop techniques for functionalizing the nano-wires as receptors to biomaterial; and Professor Greg Bohach at gbohach@uidaho.edu, who will provide guidance and expertise on the chemical properties of biomaterials such as viruses.

Department of Chemistry

- Professor of Inorganic Chemistry Dr. Pamela Shapiro's current research is on quantum dot solar cells.
E-mail: shapiro@uidaho.edu
- Associate Professor of Chemistry Dr. Frank Cheng and Professor of Chemistry Dr. Chien Wai are working on using supercritical carbon dioxide processing to develop fuel cells..
Moscow, ID 83844-2343
Phone: (208) 885-6552
E-mail: ifcheng@uidaho.edu, cwai@uidaho.edu
Web site: uidaho.edu

700 W. State Street, 2nd Floor
P.O. Box 83720
Boise, Idaho 83720-0093
(208) 334-2470
Fax: (208) 334-2631
(800) 842-5858
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